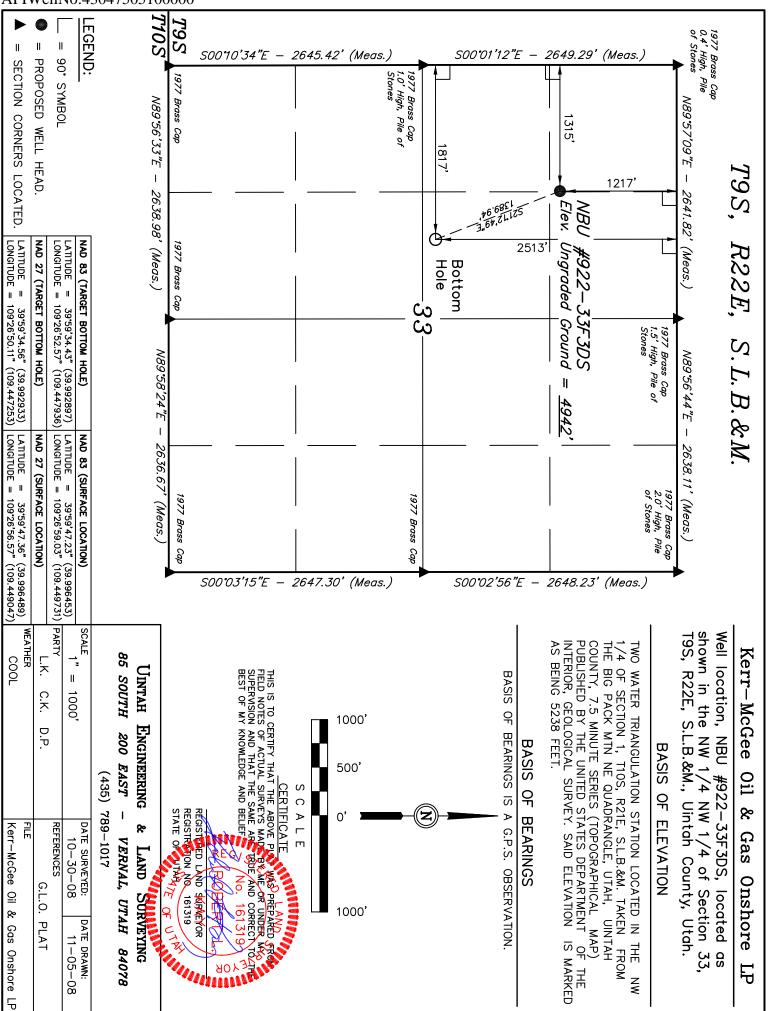
		DEPARTMENT	ATE OF UTAH OF NATURAL RES F OIL, GAS AND N			FOR				
APPLI	CATION FOR	PERMIT TO DRILL			1. WELL NAME and	1. WELL NAME and NUMBER NBU 922-33F3DS				
2. TYPE OF WORK DRILL NEW WELL	REENTER P	&A WELL (DEEPE	N WELL		3. FIELD OR WILD	CAT NATURAL BUTTES				
4. TYPE OF WELL Gas W	5. UNIT or COMMU	NITIZATION AGRE NATURAL BUTTES	EMENT NAME							
6. NAME OF OPERATOR KERF	7. OPERATOR PHO	NE 720 929-6587								
8. ADDRESS OF OPERATOR	9. OPERATOR E-MA	\IL londragon@anadarko	o.com							
10. MINERAL LEASE NUMBER	7. BOX 173773, E	Denver, CO, 80217 11. MINERAL OWNER	RSHIP		12. SURFACE OWN					
(FEDERAL, INDIAN, OR STATE) UTU 01191A		FEDERAL (IND)	IAN (STATE (FEE (FEDERAL (IN	DIAN STATE	FEE (
13. NAME OF SURFACE OWNER (if box 12	= 'fee')				14. SURFACE OWN	ER PHONE (if box :	12 = 'fee')			
15. ADDRESS OF SURFACE OWNER (if box	(12 = 'fee')				16. SURFACE OWN	ER E-MAIL (if box	12 = 'fee')			
17. INDIAN ALLOTTEE OR TRIBE NAME		18. INTEND TO COM		ION FROM	19. SLANT					
(if box 12 = 'INDIAN')		YES (Submit Co	ommingling Applicat	ion) NO	VERTICAL DI	RECTIONAL 📵 H	ORIZONTAL 🗍			
20. LOCATION OF WELL	FC	OOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE	1217 F	NL 1315 FWL	NWNW	33	9.0 S	22.0 E	S			
Top of Uppermost Producing Zone	2513 F	NL 1817 FWL	SENW	33	9.0 S	22.0 E	S			
At Total Depth	2513 F	NL 1817 FWL	SENW	33	9.0 S	22.0 E	S			
21. COUNTY UINTAH		22. DISTANCE TO NE	EAREST LEASE LIN	E (Feet)	23. NUMBER OF AC	CRES IN DRILLING	UNIT			
		25. DISTANCE TO NE (Applied For Drilling		AME POOL	POOL 26. PROPOSED DEPTH MD: 9392 TVD: 9000					
27. ELEVATION - GROUND LEVEL		28. BOND NUMBER	1330	29. SOURCE OF DRILLING WATER /						
4942			WYB000291	WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496						
		АТ	TACHMENTS							
VERIFY THE FOLLOWING	ARE ATTACH	IED IN ACCORDANG	CE WITH THE U	TAH OIL ANI	GAS CONSERVAT	ON GENERAL RU	JLES			
₩ WELL PLAT OR MAP PREPARED BY	LICENSED SUF	RVEYOR OR ENGINEER	сом г	IPLETE DRILLI	NG PLAN					
AFFIDAVIT OF STATUS OF SURFACE	E OWNER AGRE	EEMENT (IF FEE SURF	ACE) FOR	FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
DRILLED)	RECTIONALLY	OR HORIZONTALLY	№ торо	TOPOGRAPHICAL MAP						
NAME Danielle Piernot	т	PHONE 7	20 929-6156							
SIGNATURE	D	ATE 06/19/2009		EMAIL d	anielle.piernot@anadark	o.com				
API NUMBER ASSIGNED 43047505100000	A	PPROVAL		E	10 yill					
				P	ermit Manager					

API Well No: 43047505100000 Received: 6/19/2009

	Proposed Hole, Casing, and Cement								
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)					
Prod	7.875	4.5	0	9392					
Pipe	Grade	Length	Weight						
	Grade I-80 LT&C	9392	11.6						

API Well No: 43047505100000 Received: 6/19/2009

	Proposed Hole, Casing, and Cement								
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)					
Surf	12.25	9.625	0	2210					
Pipe	Grade	Length	Weight						
	Grade J-55 LT&C	2210	36.0		П				





Project: Uintah County, UT NAD27 Kerr McGee Oil and Gas Onshore LP

Site: NBU 922-33D Pad Well: NBU 922-33F3DS

Wellbore: OH Design: Plan 2

WELL DETAILS: NBU 922-33F3DS

GL 4942' & RKB 18' @ 4960.00ft Ground Level: Latitude Longitude Easting

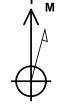
Azimuths to True North Magnetic North: 11.36°

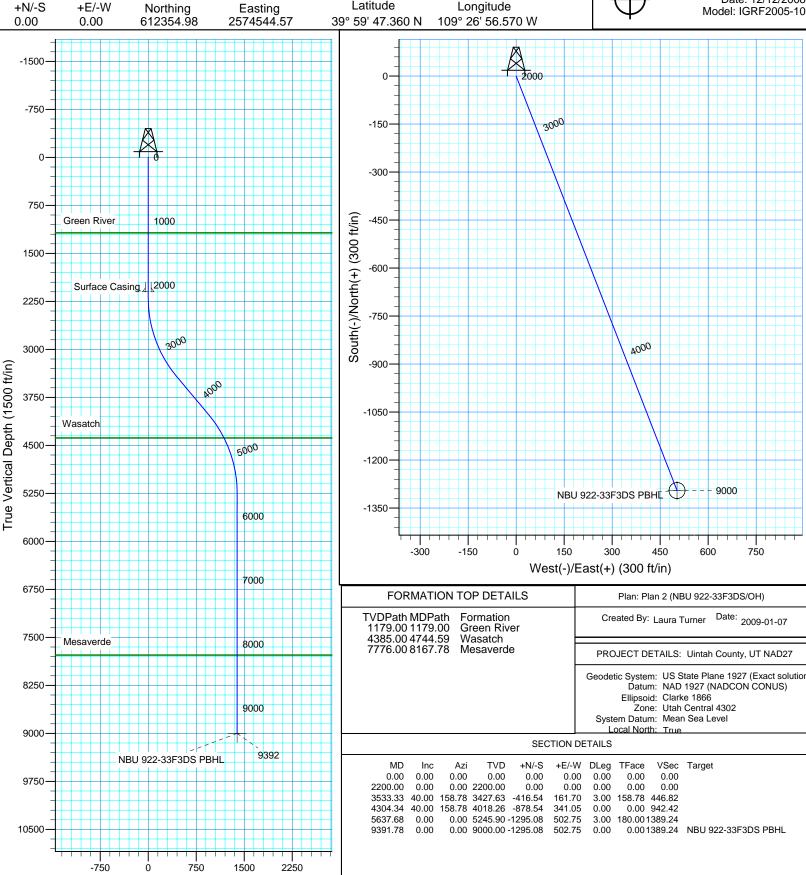
> Magnetic Field Strength: 52609.3snT Dip Angle: 65.95° Date: 12/12/2008 Model: IGRF2005-10

> > 9000

750

Date: 2009-01-07





Vertical Section at 158.80° (1500 ft/in)

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT NAD27 NBU 922-33D Pad NBU 922-33F3DS OH

Plan: Plan 2

Standard Planning Report

08 January, 2009

Planning Report

Database: EDM2003.16 MultiuserDB

Kerr McGee Oil and Gas Onshore LP Company:

Uintah County, UT NAD27 Project: NBU 922-33D Pad Site: Well: NBU 922-33F3DS

ОН Wellbore: Design: Plan 2 Local Co-ordinate Reference:

Well NBU 922-33F3DS GL 4942' & RKB 18' @ 4960.00ft TVD Reference:

GL 4942' & RKB 18' @ 4960.00ft MD Reference:

North Reference: True

Survey Calculation Method: Minimum Curvature

Project Uintah County, UT NAD27

US State Plane 1927 (Exact solution) Map System:

NAD 1927 (NADCON CONUS) Geo Datum:

Map Zone: Utah Central 4302 System Datum: Mean Sea Level

Site NBU 922-33D Pad, Sec 33 T6S R22E

Northing: 611,096.92ft Site Position: Latitude: 39° 59' 35.060 N 109° 27' 4.360 W From: Lat/Long Easting: 2,573,967.00ft Longitude: **Position Uncertainty:** 0.00 ft Slot Radius: **Grid Convergence:** 1.31°

Well NBU 922-33F3DS, 1217' FNL & 1315' FWL

Well Position +N/-S 0.00 ft Northing: 612,354.98 ft Latitude: 39° 59' 47.360 N

+E/-W 0.00 ft Easting: 2,574,544.57 ft Longitude: 109° 26' 56.570 W

Position Uncertainty 0.00 ft Wellhead Elevation: ft **Ground Level:** 4,942.00 ft

Wellbore ОН

Declination Field Strength **Magnetics Model Name** Sample Date **Dip Angle** (°) (°) (nT) 65.95 IGRF2005-10 12/12/2008 11.36 52,609

Plan 2 Design

Audit Notes:

0.00 Version: Phase: **PLAN** Tie On Depth:

+N/-S **Vertical Section:** Depth From (TVD) +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 158.80

Plan Section	s									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,533.33	40.00	158.78	3,427.63	-416.54	161.70	3.00	3.00	0.00	158.78	
4,304.34	40.00	158.78	4,018.26	-878.54	341.05	0.00	0.00	0.00	0.00	
5,637.68	0.00	0.00	5,245.90	-1,295.08	502.75	3.00	-3.00	0.00	180.00	
9,391.78	0.00	0.00	9,000.00	-1,295.08	502.75	0.00	0.00	0.00	0.00	NBU 922-33F3DS F

Planning Report

Database: EDM2003.16 MultiuserDB

Company: Kerr McGee Oil and Gas Onshore LP

Project: Uintah County, UT NAD27 Site: NBU 922-33D Pad Well: NBU 922-33F3DS

Wellbore: OH
Design: Plan 2

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well NBU 922-33F3DS

GL 4942' & RKB 18' @ 4960.00ft GL 4942' & RKB 18' @ 4960.00ft

True

Minimum Curvature

lanned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,179.00	0.00	0.00	1,179.00	0.00	0.00	0.00	0.00	0.00	0.00
Green Rive 1,200.00 1,300.00	0.00 0.00	0.00 0.00	1,200.00 1,300.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
Surface Ca 2,200.00	o.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	3.00	158.78	2,299.95	-2.44	0.95	2.62	3.00	3.00	0.00
2,400.00	6.00	158.78	2,399.63	-9.75	3.79	10.46	3.00	3.00	0.00
2,500.00	9.00	158.78	2,498.77	-21.92	8.51	23.51	3.00	3.00	0.00
2,600.00	12.00	158.78	2,597.08	-38.91	15.10	41.74	3.00	3.00	0.00
2,700.00	15.00	158.78	2,694.31	-60.67	23.55	65.08	3.00	3.00	0.00
2,800.00	18.00	158.78	2,790.18	-87.14	33.83	93.48	3.00	3.00	0.00
2,900.00	21.00	158.78	2,884.43	-118.25	45.91	126.85	3.00	3.00	0.00
3,000.00	24.00	158.78	2,976.81	-153.92	59.75	165.12	3.00	3.00	0.00
3,100.00	27.00	158.78	3,067.06	-194.05	75.33	208.16	3.00	3.00	0.00
3,200.00	30.00	158.78	3,154.93	-238.53	92.60	255.87	3.00	3.00	0.00
3,300.00	33.00	158.78	3,240.18	-287.23	111.50	308.12	3.00	3.00	0.00
3,400.00	36.00	158.78	3,322.59	-340.03	132.00	364.75	3.00	3.00	0.00
3,500.00	39.00	158.78	3,401.91	-396.77	154.03	425.62	3.00	3.00	0.00
3,533.33	40.00	158.78	3,427.63	-416.54	161.70	446.82	3.00	3.00	0.00
3,600.00	40.00	158.78	3,478.70	-456.48	177.21	489.67	0.00	0.00	0.00
3,700.00	40.00	158.78	3,555.31	-516.41	200.47	553.95	0.00	0.00	0.00
3,800.00	40.00	158.78	3,631.91	-576.33	223.73	618.23	0.00	0.00	0.00
3,900.00	40.00	158.78	3,708.52	-636.25	246.99	682.51	0.00	0.00	0.00
4,000.00	40.00	158.78	3,785.12	-696.17	270.26	746.79	0.00	0.00	0.00
4,100.00	40.00	158.78	3,861.73	-756.09	293.52	811.07	0.00	0.00	0.00
4,200.00	40.00	158.78	3,938.33	-816.02	316.78	875.35	0.00	0.00	0.00
4,300.00	40.00	158.78	4,014.93	-875.94	340.04	939.63	0.00	0.00	0.00
4,304.34	40.00	158.78	4,018.26	-878.54	341.05	942.42	0.00	0.00	0.00
4,400.00	37.13	158.78	4,093.05	-934.13	362.63	1,002.04	3.00	-3.00	0.00
4,500.00	34.13	158.78	4,174.32	-988.43	383.71	1,060.29	3.00	-3.00	0.00
4,600.00	31.13	158.78	4,258.53	-1,038.69	403.22	1,114.21	3.00	-3.00	0.00
4,700.00	28.13	158.78	4,345.44	-1,084.77	421.11	1,163.64	3.00	-3.00	0.00

Planning Report

Database: EDM2003.16 MultiuserDB

Company: Kerr McGee Oil and Gas Onshore LP

Project: Uintah County, UT NAD27 Site: NBU 922-33D Pad Well: NBU 922-33F3DS

Wellbore: OH
Design: Plan 2

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well NBU 922-33F3DS

GL 4942' & RKB 18' @ 4960.00ft GL 4942' & RKB 18' @ 4960.00ft

True

Minimum Curvature

ed Survey Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination (°)	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)		(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)
4,744.59 Wasatch	26.79	158.78	4,385.00	-1,103.94	428.55	1,184.20	3.00	-3.00	0.00
4,800.00	25.13	158.78	4,434.82	-1,126.55	437.33	1,208.46	3.00	-3.00	0.00
4,900.00	22.13	158.78	4,526.42	-1,163.91	451.84	1,248.54	3.00	-3.00	0.00
5,000.00	19.13	158.78	4,620.00	-1,196.76	464.59	1,283.77	3.00	-3.00	0.00
5,100.00	16.13	158.78	4,715.29	-1,224.99	475.54	1,314.05	3.00	-3.00	0.00
5,200.00	13.13	158.78	4,812.04	-1,248.53	484.68	1,339.31	3.00	-3.00	0.00
5,300.00	10.13	158.78	4,909.98	-1,267.32	491.98	1,359.47	3.00	-3.00	0.00
5,400.00	7.13	158.78	5,008.83	-1,281.31	497.41	1,374.47	3.00	-3.00	0.00
5,500.00	4.13	158.78	5,108.34	-1,290.45	500.96	1,384.28	3.00	-3.00	0.00
5,600.00	1.13	158.78	5,208.22	-1,294.73	502.62	1,388.87	3.00	-3.00	0.00
5,637.68	0.00	0.00	5,245.90	-1,295.08	502.75	1,389.24	3.00	-3.00	0.00
5,700.00	0.00	0.00	5,308.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
5,800.00	0.00	0.00	5,408.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
5,900.00	0.00	0.00	5,508.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
6,000.00	0.00	0.00	5,608.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
6,100.00	0.00	0.00	5,708.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
6,200.00	0.00	0.00	5,808.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
6,300.00	0.00	0.00	5,908.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
6,400.00	0.00	0.00	6,008.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
6,500.00	0.00	0.00	6,108.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
6,600.00	0.00	0.00	6,208.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
6,700.00	0.00	0.00	6,308.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
6,800.00	0.00	0.00	6,408.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
6,900.00	0.00	0.00	6,508.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
7,000.00	0.00	0.00	6,608.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
7,100.00	0.00	0.00	6,708.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
7,200.00	0.00	0.00	6,808.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
7,300.00	0.00	0.00	6,908.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
7,400.00	0.00	0.00	7,008.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
7,500.00	0.00	0.00	7,108.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
7,600.00	0.00	0.00	7,208.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
7,700.00	0.00	0.00	7,308.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
7,800.00	0.00	0.00	7,408.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
7,900.00	0.00	0.00	7,508.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
8,000.00	0.00	0.00	7,608.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
8,100.00	0.00	0.00	7,708.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
8,167.78	0.00	0.00	7,776.00	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
Mesaverde 8,200.00 8,300.00	0.00 0.00	0.00 0.00	7,808.22 7,908.22	-1,295.08 -1,295.08	502.75 502.75	1,389.24 1,389.24	0.00 0.00	0.00 0.00	0.00 0.00
8,400.00	0.00	0.00	8,008.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
8,500.00	0.00	0.00	8,108.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
8,600.00	0.00	0.00	8,208.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
8,700.00	0.00	0.00	8,308.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
8,800.00	0.00	0.00	8,408.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
8,900.00	0.00	0.00	8,508.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
9,000.00	0.00	0.00	8,608.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
9,100.00	0.00	0.00	8,708.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
9,200.00	0.00	0.00	8,808.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
9,300.00	0.00	0.00	8,908.22	-1,295.08	502.75	1,389.24	0.00	0.00	0.00
9,391.78 NBU 922-3	0.00 3F3DS PBHL	0.00	9,000.00	-1,295.08	502.75	1,389.24	0.00	0.00	0.00

Planning Report

Database: EDM2003.16 MultiuserDB

Kerr McGee Oil and Gas Onshore LP Company:

Project: Uintah County, UT NAD27 Site: NBU 922-33D Pad Well: NBU 922-33F3DS

Wellbore: ОН Plan 2 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well NBU 922-33F3DS

GL 4942' & RKB 18' @ 4960.00ft GL 4942' & RKB 18' @ 4960.00ft

True

Minimum Curvature

D	lan	ne	a	Q.	ı٣٧	101	

Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
NBU 922-33F3DS PB - plan hits target of	enter	0.00	9,000.00	-1,295.08	502.75	611,071.77	2,575,076.88	39° 59′ 34.560 N	109° 26′ 50.110 W

- Circle (radius 25.00)

Measured Depth (ft)	Vertical Depth (ft)		Name	Casing Diameter (in)	Hole Diameter (in)	
2,100.00	2,100.00	Surface Casing		9.625	13.500	

Fo	rm	ati	ons

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,179.00	1,179.00 Gr	een River		0.00	
4,744.59	4,385.00 Wa	asatch		0.00	
8,167.78	7,776.00 Me	saverde		0.00	

NBU 922-33F3DS

Surface: 1,217' FNL, 1,315' FWL (NW/4NW/4) BHL: 2,513' FNL 1,817' FWL (SE/4NW/4) Sec. 33 T9S R22E

> Uintah, Utah Mineral Lease: UTU01191A

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. – 2. <u>Estimated Tops of Important Geologic Markers</u>: <u>Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations</u>:

<u>Formation</u>	<u>Depth</u>	Resource
Uinta	0 – Surface	
Green River	1,179'	
Birds Nest	1,523'	Water
Mahogany	2,006'	Water
Wasatch	4,385'	Gas
Mesaverde	6,837'	Gas
MVU2	7,776'	Gas
MVL1	8,338'	Gas
TVD	9,000'	
TD	9,392'	

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Drilling Program.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program.

5. <u>Drilling Fluids Program:</u>

Please refer to the attached Drilling Program.

Evaluation Program:

Please refer to the attached Drilling Program.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 9,392' TD (MD), approximately equals 5,559 psi (calculated at 0.59 psi/foot).

Maximum anticipated surface pressure equals approximately 3,347 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found

competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see

attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

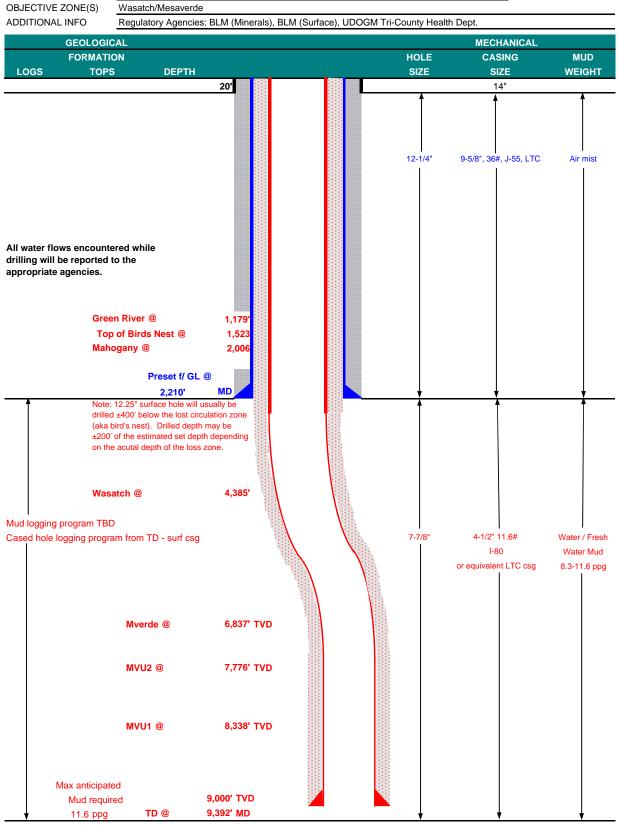
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE June 16, 2009 NBU 922-33F3DS WELL NAME 9,000' 9,392' MD TVD Natural Buttes COUNTY Uintah FINISHED ELEVATION 4,942' FIELD STATE Utah SURFACE LOCATION NW/4 NW/4 1,217' FNL 1,315' FWL Sec 33 T 9S R 22E Latitude: 39.996453 Longitude: -109.449731 NAD 83 BTM HOLE LOCATION SE/4 NW/4 2,513' FNL 1,817' FWL Sec 33 T 9S R 22E Latitude: 39.992897 -109.447936 NAD 83 Longitude: Wasatch/Mesaverde





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

									DESIGN FACT	ORS
	SIZE	INTI	ERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	14"	C)-40'							
								3,520	2,020	453,000
SURFACE	9-5/8"	0	to	2,210	36.00	J-55	LTC	0.98	1.95	7.25
								7,780	6,350	201,000
PRODUCTION	4-1/2"	0	to	9,392	11.60	I-80	LTC	2.26	1.17	2.11

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))
- 2) MASP (Prod Casing) = Pore Pressure at TD (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 11.6 ppg) 0.22 psi/ft = gradient for partially evac wellbore (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MASP 3,347 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 11.6 ppg) 0.59 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 5,559 psi

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1		+ 0.25 pps flocele				
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	380	0%	15.60	1.18
		+ 2% CaCl + 0.25 pps flocele				
		Premium cmt + 2% CaCl				
SURFACE		NOTE: If well will circulate water to sur	face, optio	n 2 will be ເ	ıtilized	
Option 2 LEAD	1,710'	65/35 Poz + 6% Gel + 10 pps gilsonite	400	35%	12.60	1.81
		+ 0.25 pps Flocele + 3% salt BWOW				
TAIL	500'	Premium cmt + 2% CaCl	180	35%	15.60	1.18
		+ 0.25 pps flocele				
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION LEAD	3,882'	Premium Lite II + 3% KCI + 0.25 pps	370	40%	11.00	3.38
		celloflake + 5 pps gilsonite + 10% gel				
		+ 0.5% extender				
TAIL	5,510'	50/50 Poz/G + 10% salt + 2% gel	1,350	40%	14.30	1.31
		+ 0.1% R-3				

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe				
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.				

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

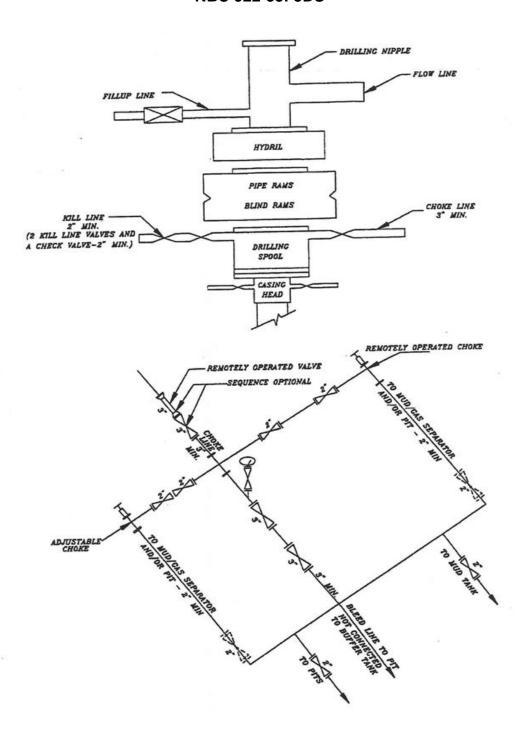
BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.	
Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.	

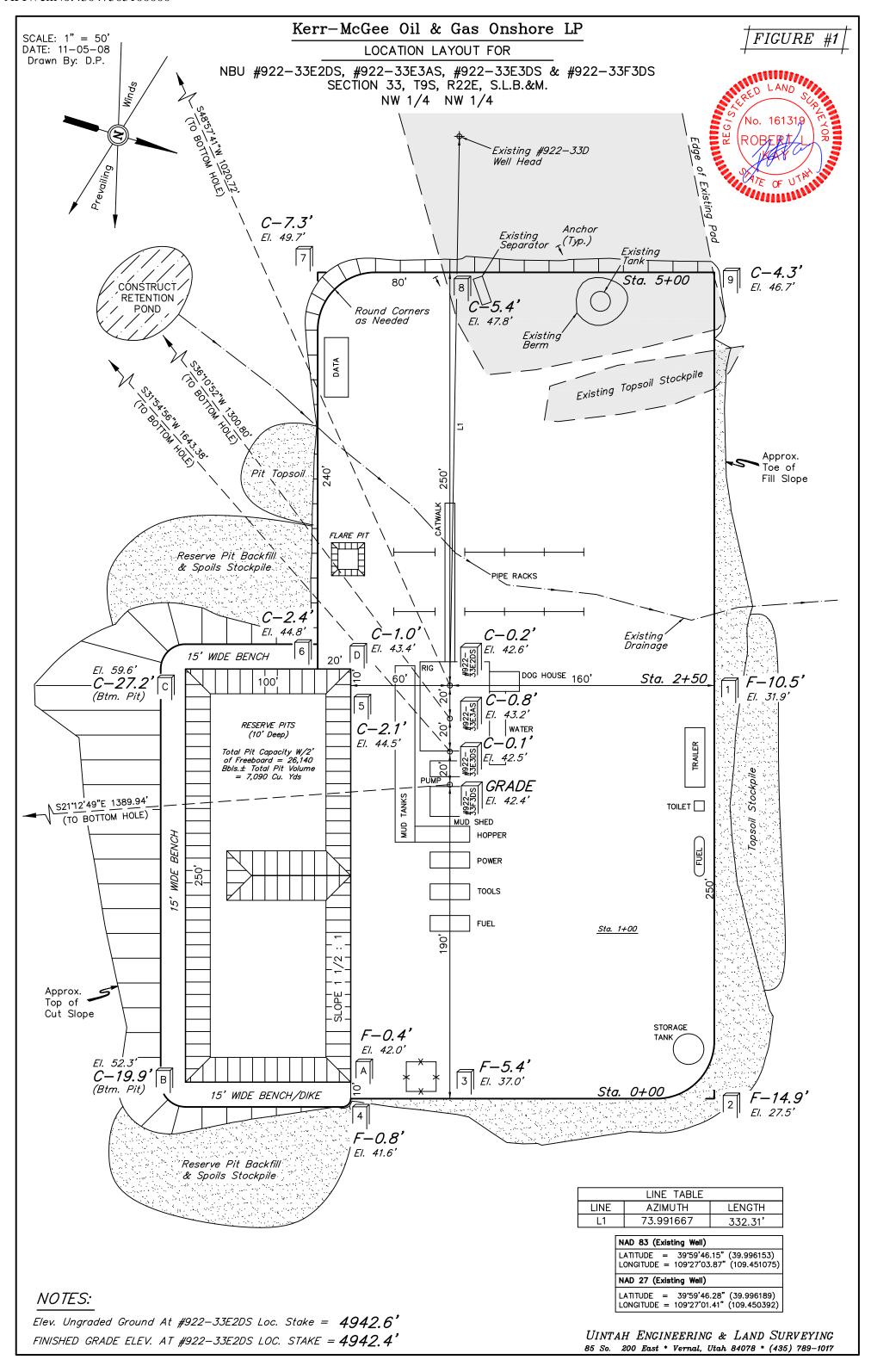
	Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.							
DRILLING	ENGINEER:		DATE:					
		John Huycke / Emile Goodwin						
DRILLING	SUPERINTENDENT:		DATE:					
		John Merkel / Lovel Young						

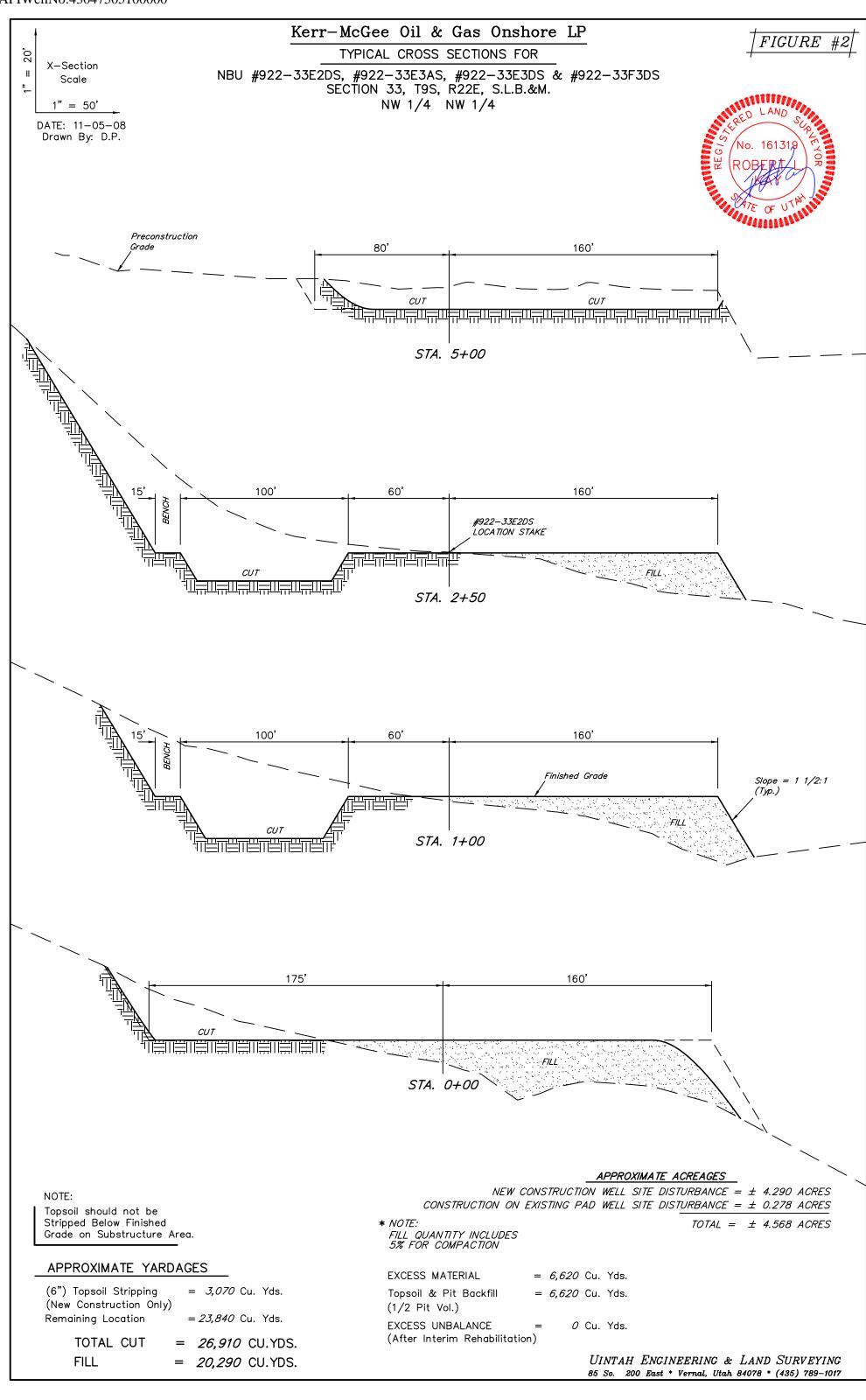
^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

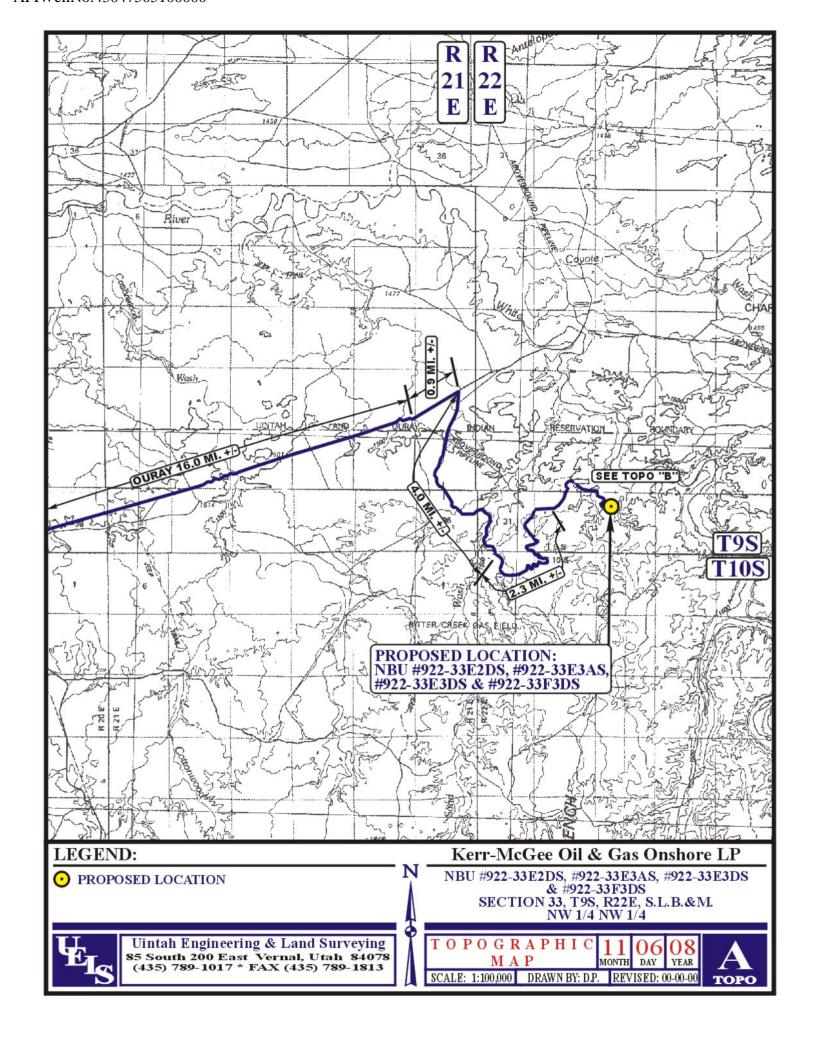
EXHIBIT A NBU 922-33F3DS

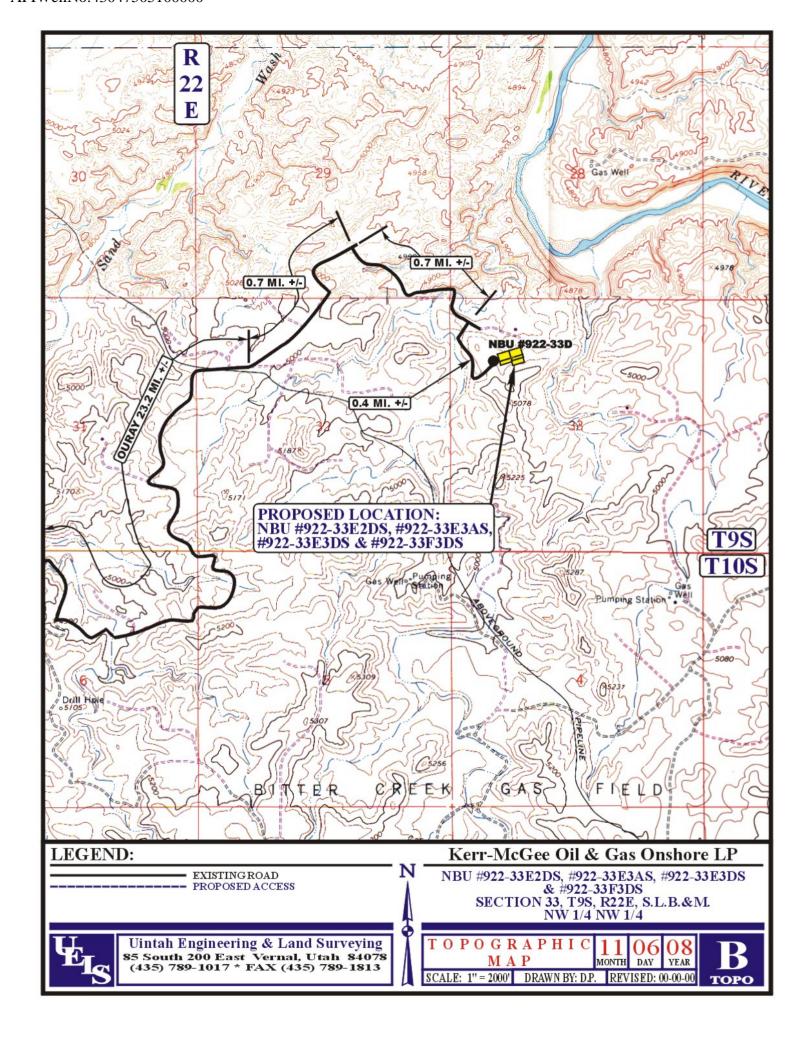


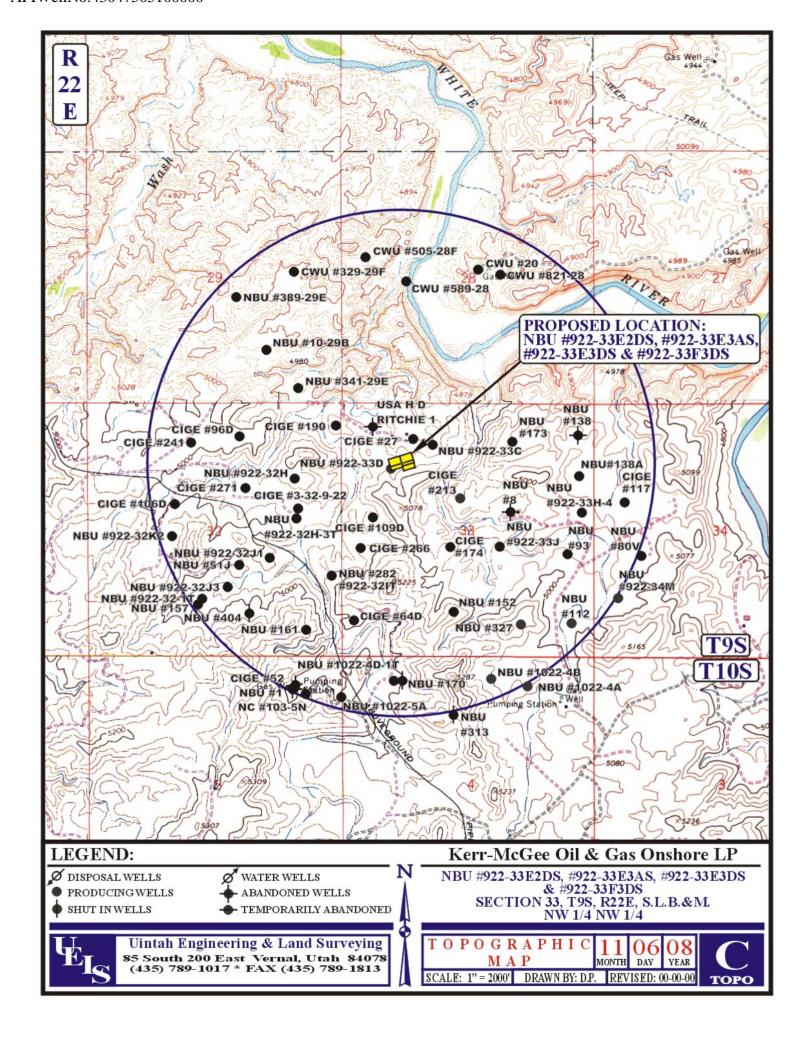
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

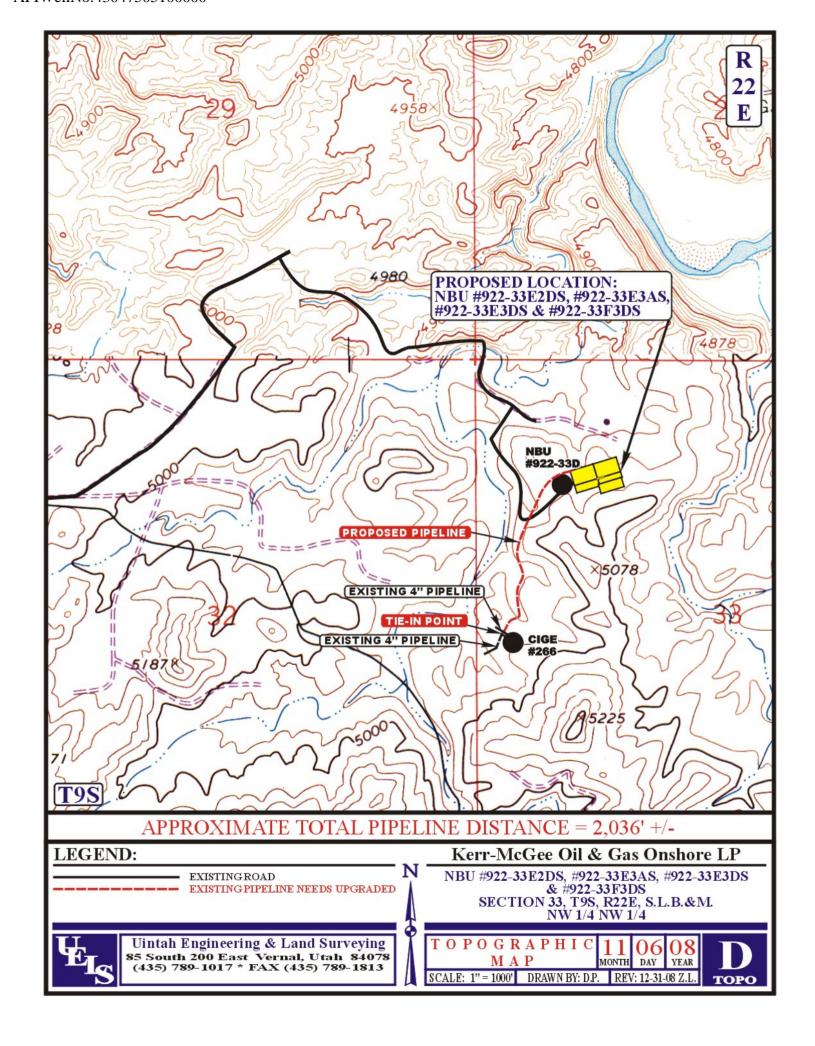












Kerr-McGee Oil & Gas Onshore LP

NBU #922-33E2DS, #922-33E3AS, #922-33E3DS & #922-33F3DS

LOCATED IN UINTAH COUNTY, UTAH SECTION 33, T9S, R22E, S.L.B.&M.

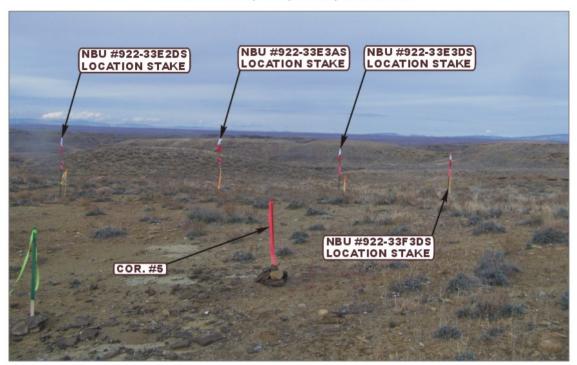


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW OF EXISTING PAD

CAMERA ANGLE: EASTERLY



LOCATION				рното	
TAKEN BY: L.K.	DRAWN BY: D.P	. REV	ISED: 0	0-00-00	

Kerr-McGee Oil & Gas Onshore LP

NBU #922-33E2DS, #922-33E3AS, #922-33E2DS & #922-33F3DS SECTION 33, T9S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88: EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND Α SOUTHEASTERLY, THEN **EASTERLY DIRECTION** PROCEED IN APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST: RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; **PROCEED** SOUTHWESTERLY. **TURN** RIGHT AND IN Α SOUTHEASTERLY DIRECTION APPROXIMATELY 4.0 MILES TO JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST: TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY, THEN NORTHERLY DIRECTION APPROXIMATELY 2.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST: TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST: TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.4 MILES PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 56.0 MILES.

NBU 922-33E2DS

Surface: 1,234' FNL, 1,257' FWL (NW/4NW/4) BHL: 1,904' FNL 487' FWL (SW/4NW/4)

NBU 922-33E3AS

Surface: 1,229' FNL, 1,276' FWL (NW/4NW/4) BHL: 2,278' FNL 508' FWL (SW/4NW/4)

NBU 922-33E3DS

Surface: 1,223' FNL, 1,295' FWL (NW/4NW/4) BHL: 2,617' FNL 426' FWL (SW/4NW/4)

NBU 922-33F3DS

Surface: 1,217' FNL, 1,315' FWL (NW/4NW/4) BHL: 2,513' FNL 1,817' FWL (SE/4NW/4)

Pad: NBU 922-33D

Uintah, Utah Mineral Lease: UTU01191A

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN SUBMITTED WITH SITE-SPECIFIC INFORMATION

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents. An NOS was submitted on March 17, 2009 showing the surface locations in NW/4 NW/4 of Section 33 T9S R22E.

This Surface Use Plan of Operations (SUPO) or 13-point plan provides the site-specific information for the above-referenced wells. This information is to be incorporated by reference into the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee). The MDP is available upon request from the BLM-Vernal Field Office.

An on-site meeting was held on March 30, 2009. Present were:

- Verlyn Pindell, Dave Gordon BLM;
- Kolby Kay 609 Consulting, LLC
- Tony Kazeck, Raleen White, Sheila Upchego, Grizz Oleen, Hal Blanchard, Charles Chase and Jeff Samuels Kerr-McGee.

Directional Drilling:

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, this well will be directionally drilled in order to access portions of our lease which are otherwise inaccessible due to topography.

NBU 922-33E2DS / 33E3AS/ 33E3DS/ 33F3DS

Page 2

1. Existing Roads:

- A) Refer to Topo Map A for directions to the location.
- B) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.
- C) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. Planned Access Roads:

See MDP for additional details on road construction.

No new access road is proposed. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site and are typically shown on the attached Exhibits and Topo maps.

3. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

4. Location of Existing and Proposed Facilities:

See MDP for additional details on Existing and Proposed Facilities.

5. <u>Location and Type of Water Supply:</u>

See MDP for additional details on Location and Type of Water Supply.

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, Application number 53617. Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

6. Source of Construction Materials:

See MDP for additional details on Source of Construction Materials.

7. Methods of Handling Waste Materials:

See MDP for additional details on Methods of Handling Waste Materials.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E

NBU #159 in Sec. 35 T9S R21E Ace Oilfield in Sec. 2 T6S R20E MC&MC in Sec. 12 T6S R19E Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

NBU 922-33E2DS / 33E3AS/ 33E3DS/ 33F3DS

8. Ancillary Facilities:

See MDP for additional details on Ancillary Facilities.

None are anticipated.

9. Well Site Layout: (See Location Layout Diagram)

See MDP for additional details on Well Site Layout.

All pits will be fenced according to the following minimum standards:

- Net wire (39-inch) will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.
- Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.
- All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

10. Plans for Reclamation of the Surface:

See MDP for additional details on Plans for Reclamation of the Surface.

11. <u>Surface/Mineral Ownership:</u>

United States of America Bureau of Land Management 170 South 500 East Vernal, UT 84078 (435)781-4400

12. Other Information:

See MDP for additional details on Other Information.

13. Lessee's or Operators' Representative & Certification:

Kathy Schneebeck Dulnoan Regulatory Analyst Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6007 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720-929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Danielle Piernot

June 16, 2009

Date

Kerr-McGee Oil & Gas Onshore LP



1099 18th Street, Suite 1800 Denver, CO 80202-1918 P.O. Box 173779 Denver, CO 80217-3779 720-929-6000

April 8, 2009

Mrs. Diana Mason Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11 NBU 922-33F3DS T9S-R22E

Section 33: SENW

Surface: 1217' FNL, 1315' FWL Bottom Hole: 2513' FNL, 1817' FWL

Uintah County, Utah

Dear Mrs. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 922-33F3DS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Jason K. Rayburn Landman

'APIWellNo:43047505100000'

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS ONSHORE LP'S 46 PROPOSED WELL LOCATIONS (T9S, R22E, SEC. 29, 30, 31, 32, 33, 34; T10S, R22E, SEC. 4) UINTAH COUNTY, UTAH

By:

Nicole Shelnut

Prepared For:

Bureau of Land Management
Vernal Field Office
and
State of Utah
School & Institutional Trust Lands Administration

Prepared Under Contract With:

Kerr-McGee Oil and Gas Onshore LP 1368 South 1200 East Vernal, Utah 84078

Prepared By:

Montgomery Archaeological Consultants, Inc. P.O. Box 219 Moab, Utah 84532

MOAC Report No. 08-356

February 26, 2009

United States Department of Interior (FLPMA)
Permit No. 08-UT-60122

Public Lands Policy Coordination Office Archaeological Survey Permit No. 117

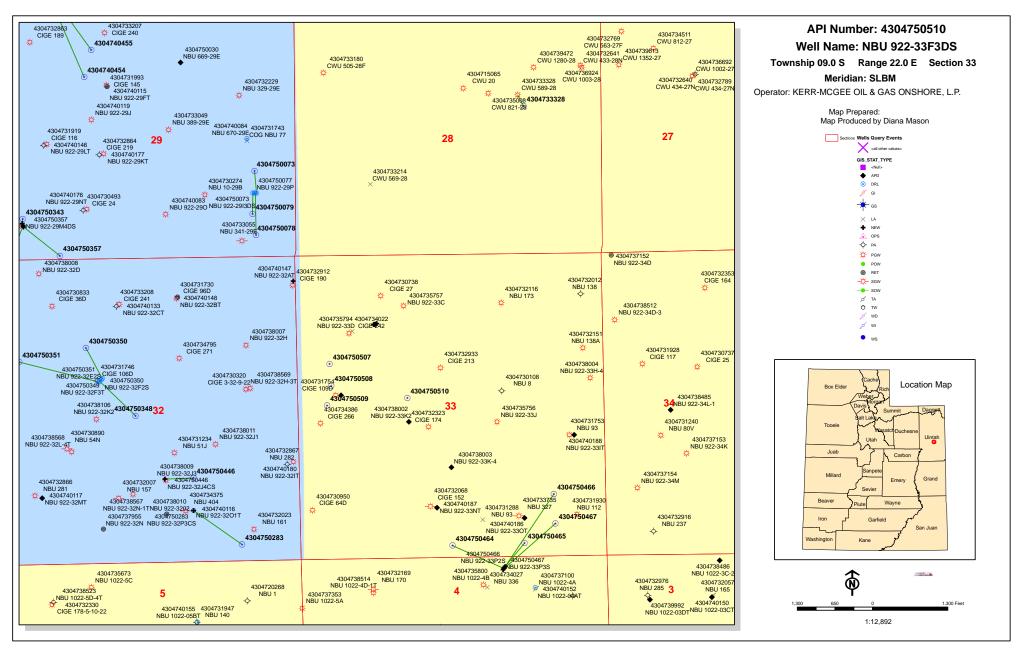
Paleontological Reconnaissance Survey Report

Survey of Kerr McGee's Proposed Onsite Changes to "NBU #922-33E2DS, E3AS, E3DS, & F3DS" (Sec. 33, T 9S, R 22 E) & "NBU #1022-5N2, #1022-5E4BS & 5E4CS, & #1022-5J2S & 5F2S" (Sec. 5 & 8, T 10 S, R 22 E)

> Archy Bench Topographic Quadrangle Uintah County, Utah

March 12, 2009

Prepared by Stephen D. Sandau Paleontologist for Intermountain Paleo-Consulting P. O. Box 1125 Vernal, Utah 84078



United States Department of the Interior

BUREAU OF LAND MANAGEMENT Utah State Office P.O. Box 45155 Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

June 26, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2009 Plan of Development Natural Buttes Unit Uintah

County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2009 within the Natural Buttes Unit, Uintah County, Utah.

API # WELL NAME LOCATION (Proposed PZ WASATCH-MESA VERDE) 43-047-50491 NBU 1022-3L3DS Sec 03 T10S R22E 1561 FSL 0415 FWL BHL Sec 03 T10S R22E 1517 FSL 0497 FWL 43-047-50492 NBU 1022-3L4BS Sec 03 T10S R22E 1571 FSL 0432 FWL BHL Sec 03 T10S R22E 1774 FSL 0712 FWL 43-047-50493 NBU 1022-3M1DS Sec 03 T10S R22E 1551 FSL 0397 FWL BHL Sec 03 T10S R22E 0987 FSL 1229 FWL 43-047-50494 NBU 1022-3M2DS Sec 03 T10S R22E 1541 FSL 0379 FWL BHL Sec 03 T10S R22E 0907 FSL 0541 FWL 43-047-50507 NBU 922-33E2DS Sec 33 T09S R22E 1234 FNL 1257 FWL BHL Sec 33 T09S R22E 1904 FNL 0487 FWL 43-047-50508 NBU 922-33E3AS Sec 33 T09S R22E 1229 FNL 1276 FWL BHL Sec 33 T09S R22E 2278 FNL 0508 FWL 43-047-50509 NBU 922-33E3DS Sec 33 T09S R22E 1223 FNL 1295 FWL BHL Sec 33 T09S R22E 2617 FNL 0426 FWL 43-047-50510 NBU 922-33F3DS Sec 33 T09S R22E 1217 FNL 1315 FWL BHL Sec 33 T09S R22E 2513 FNL 1817 FWL This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit

Division of Oil Gas and Mining

Central Files Agr. Sec. Chron Fluid Chron

MCoulthard:mc:6-26-09

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED:	6/19/2009	API NO. ASSIGNED: 43047505100000
WELL NAME:	NBU 922-33F3DS	
OPERATOR:	KERR-MCGEE OIL & 0	GAS ONSHORE, L.P. (N2995) PHONE NUMBER: 720 929-6156
CONTACT:	Danielle Piernot	
PROPOSED LOCATION:	NWNW 33 090S 220E	Permit Tech Review:
SURFACE:	1217 FNL 1315 FWL	Engineering Review:
воттом:	2513 FNL 1817 FWL	Geology Review: 🗾
COUNTY:	UINTAH	
LATITUDE:	39.99647	LONGITUDE: -109.44895
UTM SURF EASTINGS:	632410.00	NORTHINGS: 4428307.00
FIELD NAME:	NATURAL BUTTES	
LEASE TYPE:	1 - Federal	
LEASE NUMBER:	UTU 01191A	PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE
SURFACE OWNER:	1 - Federal	COALBED METHANE: NO
RECEIVED AND/OR REVIE	WED:	LOCATION AND SITING:
⊭ PLAT		R649-2-3.
▶ Bond: FEDERAL - WYB	000291	Unit: NATURAL BUTTES
Potash		R649-3-2. General
☑ Oil Shale 190-5		
Oil Shale 190-3		R649-3-3. Exception
Oil Shale 190-13		✓ Drilling Unit
✓ Water Permit: Permit	#43-8496	Board Cause No: Cause 173-14
RDCC Review:		Effective Date: 12/2/1999
Fee Surface Agreeme	ent	Siting: 460' fr u bdry & uncomm. tract
✓ Intent to Commingle		№ R649-3-11. Directional Drill
Commingling Approved	d	
Comments: Presite C	ompleted	
Stipulations: 3 - Com	mingling - ddoucet	

3 - Commingling - ddoucet 4 - Federal Approval - dmason 15 - Directional - dmason 17 - Oil Shale 190-5(b) - dmason API Well No: 43047505100000



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER

Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 922-33F3DS API Well Number: 43047505100000 Lease Number: UTU 01191A Surface Owner: FEDERAL

Approval Date: 7/15/2009

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14 commingling the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

Gil Hunt

Associate Director, Oil & Gas

Die Hunt

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE		FORM 9
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 01191A		
SUND	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for propos bottom-hole depth, reenter plu DRILL form for such proposals.	sals to drill new wells, significantly deeper gged wells, or to drill horizontal laterals.	n existing wells below current Use APPLICATION FOR PERMIT TO	7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-33F3DS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSI	HORE, L.P.		9. API NUMBER: 43047505100000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th S	treet, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 9 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1217 FNL 1315 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: NWNW Section: 33	P, RANGE, MERIDIAN: 3 Township: 09.0S Range: 22.0E Meridiar	n: S	STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
✓ NOTICE OF INTENT	ACIDIZE	ALTER CASING	CASING REPAIR
Approximate date work will start: 7/15/2010	☐ CHANGE TO PREVIOUS PLANS ☐ CHANGE WELL STATUS	☐ CHANGE TUBING ☐ COMMINGLE PRODUCING FORMATIONS	CHANGE WELL NAME CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	□ NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	☐ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
_	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	☐ WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
Kerr-McGee Oil & Ga extension to this A	MPLETED OPERATIONS. Clearly show all peas Onshore, L.P. (Kerr-McGee PD for the maximum time all with any questions and/or co	e) respectfully requests an owed. Please contact the mments. Thank you.	Approved by the Utah Division of Oil, Gas and Mining ate:
NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBE 720 929-6156	R TITLE Regulatory Analyst	
SIGNATURE N/A		DATE 7/14/2010	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047505100000

API: 43047505100000 Well Name: NBU 922-33F3DS

Location: 1217 FNL 1315 FWL QTR NWNW SEC 33 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 7/15/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that requ

	tion as submitted in t sion. Following is a cl						
	ated on private land, l ed? 问 Yes 📵 No		ership changed	l, if so, has t	the surface	agreement beei	1
	any wells been drilled requirements for this				hich would	affect the spaci	ng or
	nere been any unit or s proposed well?			lace that co	uld affect th	e permitting or	operatio
	there been any chang the proposed locatio			uding owne	rship, or rig	htof- way, whic	h could
• Has tl	ne approved source o	f water for d	rilling changed	l? 📗 Yes	No		
	there been any physi je in plans from what						ire a
• Is bor	nding still in place, wl	nich covers t	his proposed v	vell? 🌘 Yo	es 📗 No	Approved by t Utah Division I, Gas and Mi	of
nature:	Danielle Piernot	Date:	7/14/2010				
Title:	Regulatory Analyst Re	presenting:	KERR-MCGEE O	IL & GAS ON	SHOR P,ate: _	July 22, 201	0
	,	-			. P	$O(l)_{l,0} \infty$	

Sig

By: Dolly

Sundry Number: 15879 API Well Number: 43047505100000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES		FORM 9
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 01191A		
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	sals to drill new wells, significantly deepen exis ugged wells, or to drill horizontal laterals. Use A		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-33F3DS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONS	HORE, L.P.		9. API NUMBER: 43047505100000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th S	PHONE N treet, Suite 600, Denver, CO, 80217 3779	TUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1217 FNL 1315 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHI Qtr/Qtr: NWNW Section: 3:	IP, RANGE, MERIDIAN: 3 Township: 09.0S Range: 22.0E Meridian: S		STATE: UTAH
11. CHE	CK APPROPRIATE BOXES TO INDICATE N	ATURE OF NOTICE, REPORT,	OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
Kerr-McGee Oil & G extension to this A	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF	espectfully requests an ed. Please contact the ents. Thank you.	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL ✓ APD EXTENSION OTHER: Volumes, etc. Approved by the Utah Division of Oil, Gas and Mining O6/20/2011
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE	
Gina Becker	720 929-6086	Regulatory Analyst II	
SIGNATURE N/A		DATE 6/14/2011	

Sundry Number: 15879 API Well Number: 43047505100000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047505100000

API: 43047505100000 **Well Name:** NBU 922-33F3DS

Location: 1217 FNL 1315 FWL QTR NWNW SEC 33 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 7/15/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

	ated on private land, has the ted? 📗 Yes 📵 No	e ownership changed, if so, has the sur	face agreement been
	any wells been drilled in the requirements for this locati	e vicinity of the proposed well which we on? Yes No	ould affect the spacing or
	here been any unit or other s s proposed well? \(\text{\text{\text{\text{0}}}}\) Yes (agreements put in place that could affe	ect the permitting or operation
	there been any changes to t the proposed location?	the access route including ownership, one Yes 📵 No	or rightof- way, which could
• Has t	he approved source of water	r for drilling changed? 🔵 Yes 🍺 No	0
		inges to the surface location or access iscussed at the onsite evaluation?	
• Is bo	nding still in place, which co	vers this proposed well? 📵 Yes 🔘	No
Signature:	Gina Becker	Date: 6/14/2011	

Title: Regulatory Analyst II Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Sundry Number: 26528 API Well Number: 43047505100000

			FORM		
	STATE OF UTAH DEPARTMENT OF NATURAL RESOURC		FORM 9		
,	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 01191A				
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	oposals to drill new wells, significantly or reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES		
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-33F3DS		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047505100000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 73779 720 929-0	9. FIELD and POOL or WILDCAT: 65NATURAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1217 FNL 1315 FWL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 33 Township: 09.0S Range: 22.0E Meri	dian: S	STATE: UTAH		
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
	ACIDIZE	ALTER CASING	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
7/15/2012	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION		
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK		
SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	LI TEMPORARY ABANDON		
_	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL		
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION		
	WILDCAT WELL DETERMINATION	OTHER	OTHER:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you. Date: June 07, 2012 By:					
NAME (PLEASE PRINT) Jenn Hawkins	PHONE NUMB 720 929-6247	ER TITLE Staff Operations Specialist	III		
SIGNATURE N/A		DATE 6/5/2012			

Sundry Number: 26528 API Well Number: 43047505100000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047505100000

API: 43047505100000 Well Name: NBU 922-33F3DS

Location: 1217 FNL 1315 FWL QTR NWNW SEC 33 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 7/15/2009

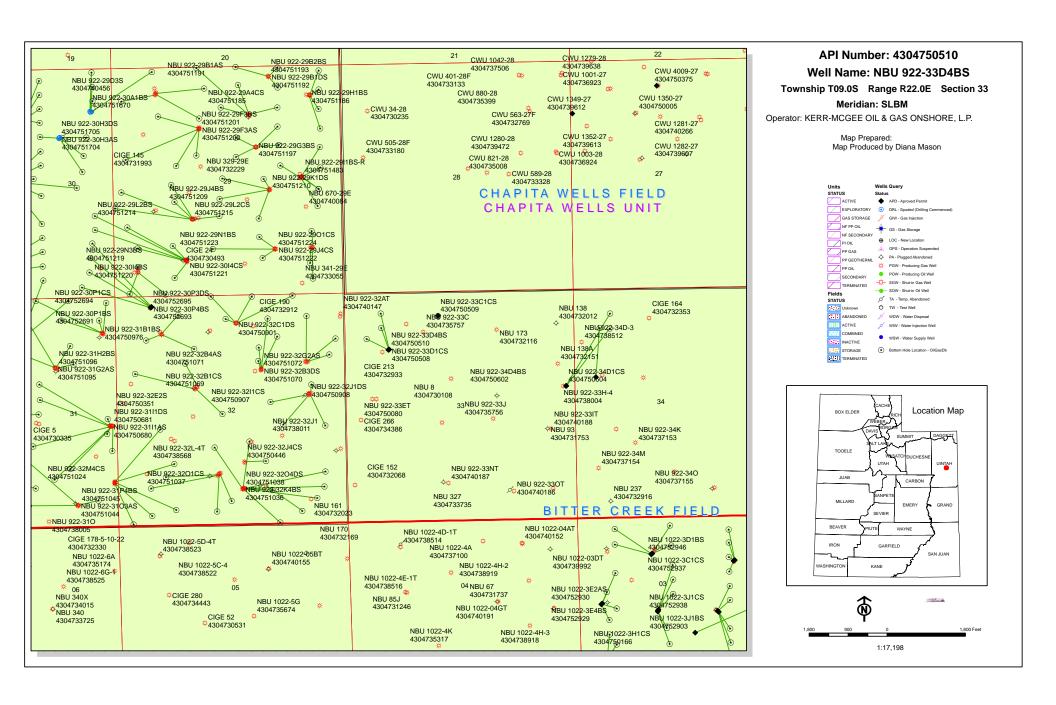
The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

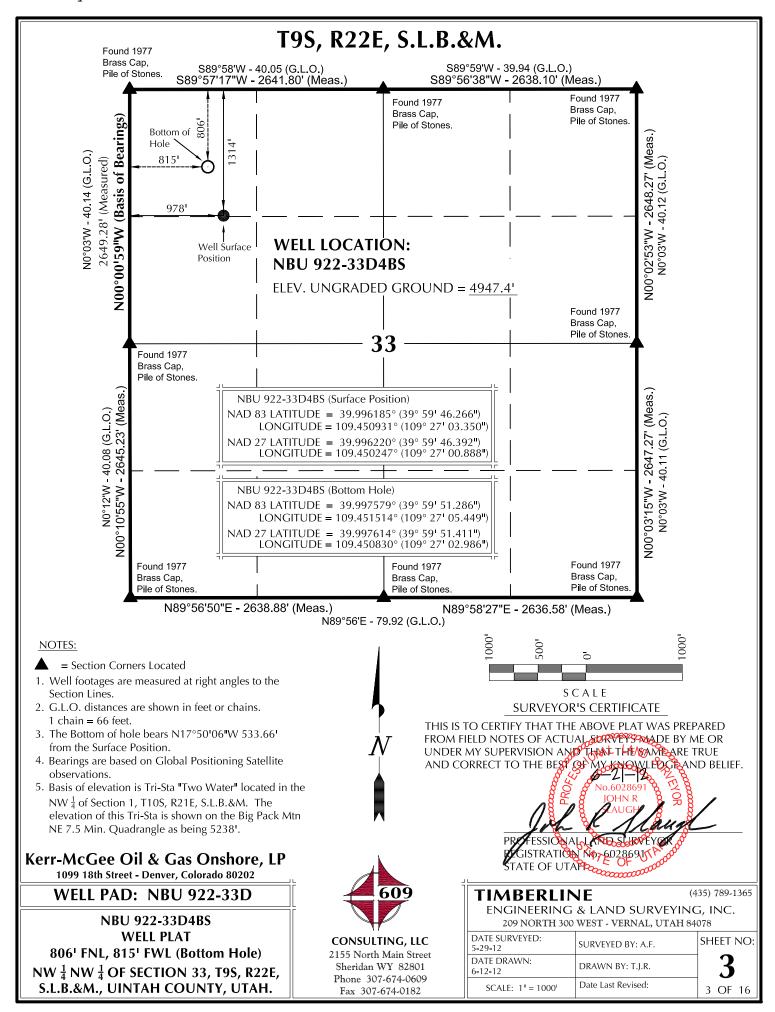
• If located on private land, has the o	ownership changed, if so, has the surface agreement been updated? 🔘
Have any wells been drilled in the requirements for this location?	vicinity of the proposed well which would affect the spacing or siting Yes No
Has there been any unit or other age proposed well? Yes No	greements put in place that could affect the permitting or operation of thi
Have there been any changes to the proposed location? Yes	e access route including ownership, or rightof- way, which could affect th No
• Has the approved source of water t	for drilling changed? 🔘 Yes 🌘 No
	ges to the surface location or access route which will require a change in the onsite evaluation? Q Yes (No
• Is bonding still in place, which cover	ers this proposed well? 🍺 Yes 🔘 No
nature: Jenn Hawkins	Date: 6/5/2012

Sig

Title: Staff Operations Specialist III Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE:		FORM 9		
1	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 01191A				
SUNDR	Y NOTICES AND REPORTS O	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
Do not use this form for pro current bottom-hole depth, FOR PERMIT TO DRILL form	posals to drill new wells, significantly de reenter plugged wells, or to drill horizont n for such proposals.	epen existing wells below al laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES		
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-33D4BS		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047505100000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	F h Street, Suite 600, Denver, CO, 80217 3	HONE NUMBER: 779 720 929-6	9. FIELD and POOL or WILDCAT: 5MATURAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1314 FNL 0978 FWL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 33 Township: 09.0S Range: 22.0E Meridi	an: S	STATE: UTAH		
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	T, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
✓ NOTICE OF INTENT	ACIDIZE	alter casing	CASING REPAIR		
Approximate date work will start: 1/1/2013	✓ CHANGE TO PREVIOUS PLANS ☐ CHANGE WELL STATUS	CHANGE TUBING COMMINGLE PRODUCING FORMATIONS	☐ CHANGE WELL NAME ☐ CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN [FRACTURE TREAT	☐ NEW CONSTRUCTION		
·	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK		
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION	RECLAMATION OF WELL SITE SIDETRACK TO REPAIR WELL	☐ RECOMPLETE DIFFERENT FORMATION ☐ TEMPORARY ABANDON		
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL		
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION		
керогт Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator is requesting the approval of the following changes to the originally approved APD: 1. Change the Well Name = from NBU 922-33F3DS to NBU 922-33D4BS \ 2. Surface & Bottom Hole Location Changes (New Plat Package is Attached) \ a. SHL - From = 1217 FNL/1315 FWL To = 1314 FNL/ 978 FWL \ b. BHL - From = 2513 FNL/1817 FWL To = 806 FNL/815 FWL \ 3. Proposed Total Depth (New Drilling Program Attached) \ 4. Surface Hole Size & Casing Grade (New Wellbore Diagram Attached) \ 5. Change to Directional Survey Plans (Directional Drilling Survey Attached) \ 6. Surface Use Plan of Operation (Updated Plan Attached) \ 7. Updated Topos & Directions (Attached)					
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER				
SIGNATURE	720 929-6086	Regulatory Analyst II DATE			
N/A		12/12/2012			





Kerr-McGee Oil & Gas Onshore, LP WELL PAD – NBU 922-33D WELLS – NBU 922-33C1CS, NBU 922-33D1CS, NBU 922-33D4BS & NBU 922-33D3DS Section 33, T9S, R22E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 18.7 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 0.1 miles to a second Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the second Class D County Road approximately 2.6 miles to a third Class D County Road to the east. Exit left and proceed in an easterly, then northeasterly, then easterly direction along the third Class D County Road approximately 2.2 miles to a fourth Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the fourth Class D County Road approximately 0.7 miles to a service road to the southeast. Exit right and proceed in a southeasterly direction along the service road approximately 0.8 miles to a second service road to the south. Exit right and proceed in a southerly, then easterly direction along the second service road approximately 0.3 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 48.9 miles in a southerly direction.

SHEET 16 OF 16

NBU 922-33E Pad Drilling Program

1 of 6

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 922-33D4BS

Surface: 1314 FNL / 978 FWL NWNW BHL: 806 FNL / 815 FWL NWNW

Section 33 T9S R22E

Unitah County, Utah Mineral Lease: UTU-01191A

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2.a <u>Estimated Tops of Important Geologic Markers</u>: Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,231'	
Birds Nest	1,592'	Water
Mahogany	1,950'	Water
Wasatch	4,470'	Gas
Mesaverde	6,966'	Gas
Sego	9,156'	Gas
Castlegate	9,202'	Gas
Blackhawk	9,655'	Gas
TVD =	10,255'	
TD =	10,310'	

2.c Kerr McGee Oil & Gas Onshore LP (Kerr McGee) may elect to drill to (i) the Blackhawk formation (part of the Mesaverde Group), (ii) to a shallower depth within the Mesaverde Group, or (iii) to the Wasatch Formation. If Kerr McGee drills to the Blackhawk formation, please refer to Blackhawk as the bottom formation. The attached Blackhawk Drilling Program includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the deeper formation.

If Kerr-McGee drills to a shallower depth in the Mesaverde Group or to the Wasatch Formation, please refer to the attached Wasatch/Mesaverde Drilling Program which includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the shallower formations.

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

NBU 922-33E Pad Drilling Program 2 of 6

4. Proposed Casing & Cementing Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

5. <u>Drilling Fluids Program:</u>

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

6. Evaluation Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

7. **Abnormal Conditions:**

7.a Blackhawk (Part of Mesaverde Group)

Maximum anticipated bottom hole pressure calculated at 10255' TVD, approximately equals 6,563 psi (0.64 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 4,293 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

7.b Wasach Formation/Mesaverde Group

Maximum anticipated bottom hole pressure calculated at 9156' TVD, approximately equals 5,585 psi (0.61 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,595 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. <u>Anticipated Starting Dates:</u>

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

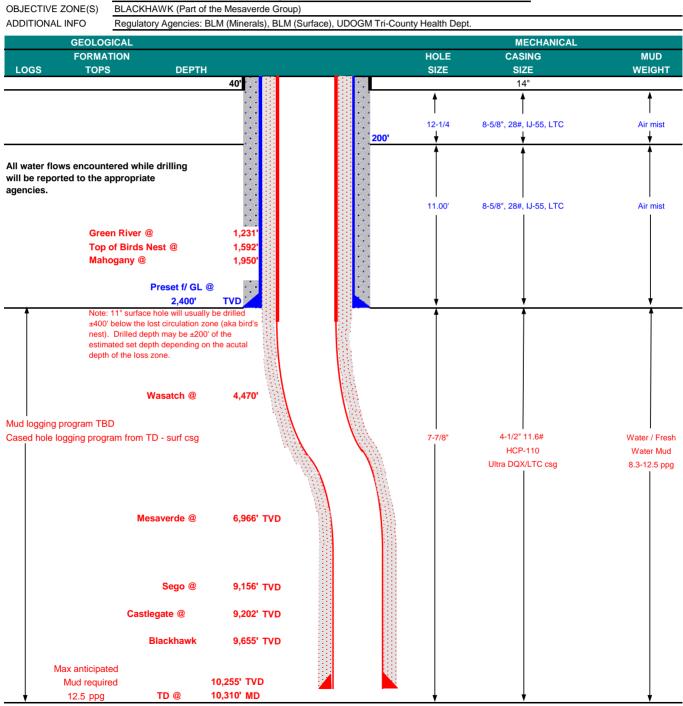
10. <u>Other Information:</u>

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program



KERR-McGEE OIL & GAS ONSHORE LP Blackhawk Drilling Program

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP				DATE	November	7, 2012			
WELL NAME NB	U 922-33D4E	S			TD	10,255'	TVD	10,310' MD	
FIELD Natural Butte	S	COUNTY	Uintah S	TATE Utal	<u> </u>	FINIS	HED ELEVATION _	4,945'	
SURFACE LOCATION	NWNW	1314 FNL	978 FWL	Sec 33	T 9S	R 22E			
	Latitude:	39.996185	Longitude:	-109.450	0931		NAD 83		
BTM HOLE LOCATION	NWNW	806 FNL	815 FWL	Sec 33	T 9S	R 22E			
	Latitude:	39.997579	Longitude:	-109.45	1514		NAD 83		
OBJECTIVE ZONE(S)	BLACKHAWK (Part of the Mesaverde Group)								
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.								



DESIGN FACTORS



KERR-McGEE OIL & GAS ONSHORE LP Blackhawk Drilling Program

CASING PROGRAM

CONDUCTOR SURFACE

PRODUCTION

									LTC	DQX
SIZE	INT	ERVAL		WT.	GR.	CPLG.	BURST COLLAPSE		TENSION	
14"	(0-40'								
							3,390	1,880	348,000	N/A
8-5/8"	0	to	2,400	28.00	IJ-55	LTC	2.24	1.67	5.91	N/A
							10,690	8,650	279,000	367,174
4-1/2"	0	to	5,000	11.60	HCP-110	DQX	1.19	1.30		3.80
4-1/2"	5,000	to	10,310'	11.60	HCP-110	LTC	1.19	1.30	5.60	

Surface Casing:

(Burst Assumptions: TD =

12.5 ppg)

0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @

9000 psi)

0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Collapse Assumption: Fully Evacuated Casing, Max MW)

poi)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGH	Ī	YIELD	
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15	
Option 1		+ 0.25 pps flocele						
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15	
		+ 2% CaCl + 0.25 pps flocele						
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized						
Option 2 LEAD	1,900'	Premium cmt + 16% Gel + 10 pps gilsonite	230	35%	12.00		2.86	
		+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps						
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15	
		+ 0.25 pps flocele						
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15	
PRODUCTION LEAD	3,970'	Premium Lite II +0.25 pps	310	35%	12.00		3.38	
		celloflake + 5 pps gilsonite + 10% gel						
		+ 0.5% extender						
TAIL	6,340'	50/50 Poz/G + 10% salt + 2% gel	1,500	35%	14.30		1.31	
		+ 0.1% R-3						

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

PRODUCTION

Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

IF extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

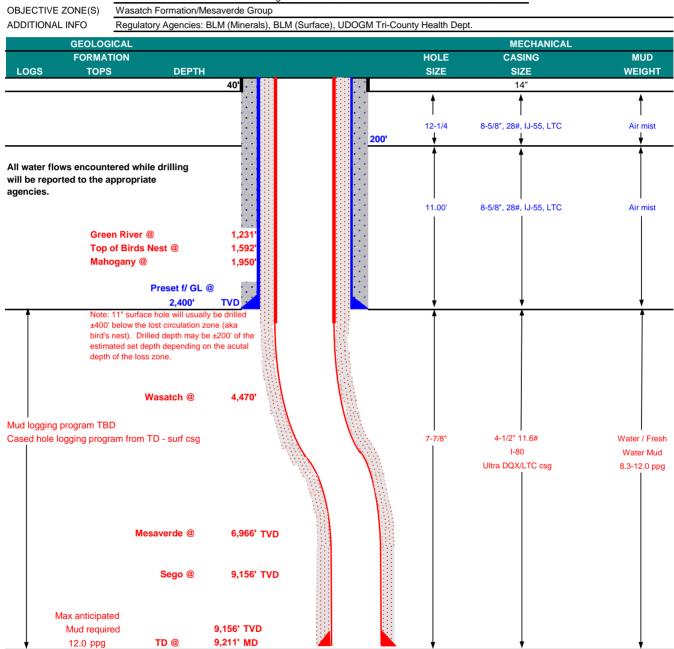
DRILLING ENGINEER:		DATE:	
	Nick Spence / Danny Showers / Travis Hansell		
DRILLING SUPERINTENDENT:		DATE:	
	Kenny Gathings / Lovel Young		

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained



KERR-McGEE OIL & GAS ONSHORE LP Wasatch/Mesaverde Drilling Program

COMPANY NAME KER	R-McGEE OIL 8	GAS ONSHOR	E LP		DATE	Novembe	r 7, 2012		
WELL NAME NB	U 922-33D4E	S			TD	9,156'	TVD	9,211' MD	
FIELD Natural Butte	S	COUNTY	Uintah S	STATE Utal	h	FINIS	HED ELEVATION	4,945'	
SURFACE LOCATION	NWNW	1314 FNL	978 FWL	Sec 33	T 9S	R 22E			
	Latitude:	39.996185	Longitude:	-109.45	0931		NAD 83		
BTM HOLE LOCATION	NWNW	806 FNL	815 FWL	Sec 33	T 9S	R 22E			
	Latitude:	39.997579	Longitude:	-109.45	1514		NAD 83		
OBJECTIVE ZONE(S)	Wasatch Form	ation/Mesaverde	Group				_		
ADDITIONAL INFO	Regulatory Age	encies: BLM (Mir	nerals), BLM (S	urface), UD	OGM Tri-	County Health	Dept.		



DESIGN EACTORS



KERR-McGEE OIL & GAS ONSHORE LP
Wasatch/Mesaverde Drilling Program

CASING PROGRAM

CONDUCTOR

SURFACE PRODUCTION

											
										LTC	DQX
	SIZE	INT	ERVA	L	WT.	GR.	CPLG.	BURST	COLLAPSE	TE	NSION
	14"	(0-40'								
								3,390	1,880	348,000	N/A
	8-5/8"	0	to	2,400	28.00	IJ-55	LTC	2.24	1.67	5.91	N/A
								7,780	6,350		267,035
	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	1.11		3.06
								7,780	6,350	223,000	
	4-1/2"	5,000	to	9,211'	11.60	I-80	LTC	1.11	1.11	5.59	

Surface Casing:

(Burst Assumptions: TD = 12.0

12.0 ppg)

0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @

7000 psi)

0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

 $(Tension\ Assumptions:\ Air\ Weight\ of\ Casing^*Buoy.Fact.\ of\ water)$

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGH	IT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1			+ 0.25 pps flocele					
TOP O	JT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
			+ 2% CaCl + 0.25 pps flocele					
SURFACE			NOTE: If well will circulate water to	surface, opti	ion 2 will be	utilized		=
Option 2	LEAD	1,900'	Premium cmt + 16% Gel + 10 pps gilsonite	230	35%	12.00		2.86
			+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps					
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
			+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps					
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION	LEAD	3,961'	Premium Lite II +0.25 pps	310	35%	12.00		3.38
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	5,250'	50/50 Poz/G + 10% salt + 2% gel	1,240	35%	14.30		1.31
			+ 0.1% R-3					

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

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ADDITIONAL INFORMATION

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Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

IF extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

DRILLING ENGINEER:		DATE:	
	Nick Spence / Danny Showers / Travis Hansell		
DRILLING SUPERINTENDENT:		DATE:	
	Kenny Gathings / Lovel Young		

NBU 922-33D Pad- Drilling Program Approved by Drilling- 110712.xlsx

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

Sundry Number: 33045 APTojete LUTANututota (feet) NADE 7,5205d 02N000

Scientific Drilling

0.00

507.71

+N/-S 0.00

TVD 9156.00

plan hits ta

-750

750

1500

Vertical Section at 342.17° (1500 ft/in)

2250

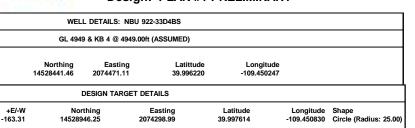
3750

SEGO

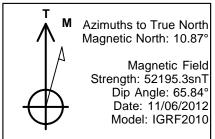
Site: NBU 922-33D PAD Well: NBU 922-33D4BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY





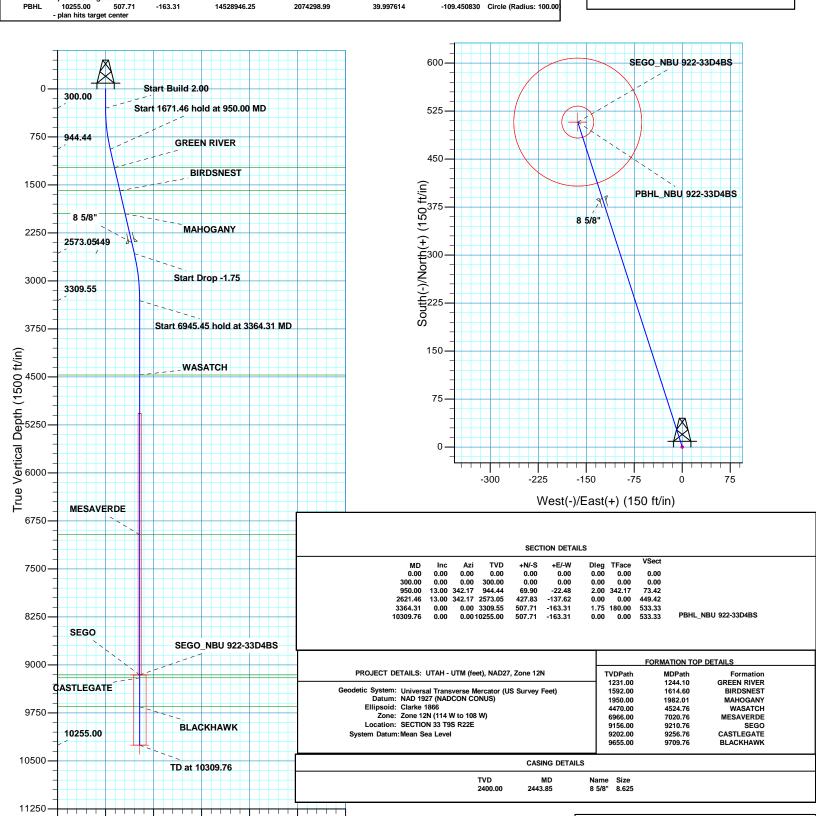


Plan: PLAN #1 PRELIMINARY (NBU 922-33D4BS/OH)

Date: 14:03, November 06 2012

Created By: RobertScott

REC





US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N NBU 922-33D PAD NBU 922-33D4BS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

06 November, 2012





SDIPlanning Report



Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-33D PAD

 Well:
 NBU 922-33D4BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 922-33D4BS

GL 4949 & KB 4 @ 4949.00ft (ASSUMED) GL 4949 & KB 4 @ 4949.00ft (ASSUMED)

True

Minimum Curvature

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System: Universal Transverse Mercator (US Survey Feet)

Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: Zone 12N (114 W to 108 W)

Mean Sea Level

Site NBU 922-33D PAD, SECTION 33 T9S R22E

Northing: 14,528,452.32 usft Site Position: Latitude: 39.996249 From: Lat/Long Easting: 2,074,488.01 usft Longitude: -109.450186 **Position Uncertainty:** 0.00 ft Slot Radius: **Grid Convergence:** 1.00 9 13.200 in

System Datum:

Well NBU 922-33D4BS, 1314 FNL 978 FWL

 Well Position
 +N/-S
 -10.56 ft
 Northing:
 14,528,441.46 usft
 Latitude:
 39.996220

 +E/-W
 -17.09 ft
 Easting:
 2,074,471.11 usft
 Longitude:
 -109.450247

Position Uncertainty 0.00 ft Wellhead Elevation: Ground Level: 4,945.00 ft

Wellbore ОН Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (nT) (°) (°) IGRF2010 11/06/12 10.87 65.84 52,195

Design	PLAN #1 PRELIMINARY				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.00	0.00	0.00	342.17	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
950.00	13.00	342.17	944.44	69.90	-22.48	2.00	2.00	0.00	342.17	
2,621.46	13.00	342.17	2,573.05	427.83	-137.62	0.00	0.00	0.00	0.00	
3,364.31	0.00	0.00	3,309.55	507.71	-163.31	1.75	-1.75	0.00	180.00	
10,309.76	0.00	0.00	10,255.00	507.71	-163.31	0.00	0.00	0.00	0.00 PB	HL_NBU 922-33D4

11/06/12 1:56:22PM Page 2 COMPASS 5000.1 Build 40



SDIPlanning Report



Database: Company: Project: EDM5000-RobertS-Local

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-33D PAD

 Well:
 NBU 922-33D4BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 922-33D4BS

GL 4949 & KB 4 @ 4949.00ft (ASSUMED) GL 4949 & KB 4 @ 4949.00ft (ASSUMED)

True

Minimum Curvature

nned S	Survey									
M	leasured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Start Build 2	.00								
	400.00	2.00	342.17	399.98	1.66	-0.53	1.75	2.00	2.00	0.00
	500.00	4.00	242.47	400.04	0.04	0.44	0.00	2.00	0.00	0.00
	500.00	4.00	342.17	499.84	6.64	-2.14	6.98	2.00	2.00	0.00
	600.00	6.00	342.17	599.45	14.94	-4.81	15.69	2.00	2.00	0.00
	700.00	8.00	342.17	698.70	26.54	-8.54	27.88	2.00	2.00	0.00
	800.00	10.00	342.17	797.47	41.43	-13.33	43.52	2.00	2.00	0.00
	900.00	12.00	342.17	895.62	59.60	-19.17	62.60	2.00	2.00	0.00
	950.00	13.00	342.17	944.44	69.90	-22.48	73.42	2.00	2.00	0.00
5	Start 1671.46	hold at 950.00	MD							
	1,000.00	13.00	342.17	993.16	80.60	-25.93	84.67	0.00	0.00	0.00
	1,100.00	13.00	342.17	1,090.59	102.02	-32.82	107.17	0.00	0.00	0.00
	1,200.00	13.00	342.17	1,188.03	123.43	-39.70	129.66	0.00	0.00	0.00
	1,244.10	13.00	342.17	1,231.00	132.88	-42.74	139.58	0.00	0.00	0.00
,	GREEN RIVE		0.12.17	1,201.00	102.00	12.7 1	100.00	0.00	0.00	0.00
,	GREEN RIVE	.r.								
	1,300.00	13.00	342.17	1,285.47	144.85	-46.59	152.16	0.00	0.00	0.00
	1,400.00	13.00	342.17	1,382.90	166.26	-53.48	174.65	0.00	0.00	0.00
	1,500.00	13.00	342.17	1,480.34	187.68	-60.37	197.15	0.00	0.00	0.00
	1,600.00	13.00	342.17	1,577.78	209.09	-67.26	219.64	0.00	0.00	0.00
	1,614.60	13.00	342.17	1,592.00	212.22	-68.26	222.93	0.00	0.00	0.00
E	BIRDSNEST									
	1,700.00	13.00	342.17	1,675.21	230.51	-74.15	242.14	0.00	0.00	0.00
	1,800.00	13.00	342.17	1,772.65	251.92	-81.03	264.63	0.00	0.00	0.00
	1,900.00	13.00	342.17	1,870.09	273.33	-87.92	287.13	0.00	0.00	0.00
	1,982.01	13.00	342.17	1,950.00	290.90	-93.57	305.58	0.00	0.00	0.00
			342.17	1,930.00	290.90	-93.37	303.36	0.00	0.00	0.00
ľ	MAHOGANY 2,000.00	13.00	342.17	1,967.53	294.75	-94.81	309.62	0.00	0.00	0.00
	2,000.00	13.00	342.17	1,907.55	294.75	-94.61	309.02	0.00		0.00
	2,100.00	13.00	342.17	2,064.96	316.16	-101.70	332.12	0.00	0.00	0.00
	2,200.00	13.00	342.17	2,162.40	337.58	-108.59	354.61	0.00	0.00	0.00
	2,300.00	13.00	342.17	2,259.84	358.99	-115.48	377.11	0.00	0.00	0.00
	2,400.00	13.00	342.17	2,357.27	380.41	-122.36	399.60	0.00	0.00	0.00
	2,443.85	13.00	342.17	2,400.00	389.80	-125.39	409.47	0.00	0.00	0.00
8	8 5/8"									
	2,500.00	13.00	342.17	2,454.71	401.82	-129.25	422.10	0.00	0.00	0.00
	2,600.00	13.00	342.17	2,552.15	423.24	-136.14	444.59	0.00	0.00	0.00
	2,621.46	13.00	342.17	2,573.05	427.83	-137.62	449.42	0.00	0.00	0.00
	Start Drop -1			_,				0.00	0.00	0.00
	2,700.00	11.63	342.17	2,649.79	443.78	-142.75	466.17	1.75	-1.75	0.00
	2,800.00	9.88	342.17	2,748.03	461.53	-142.75	484.82	1.75	-1.75	0.00
	2,900.00	8.13	342.17	2,846.80	476.42	-153.25	500.47	1.75	-1.75	0.00
	3,000.00	6.38	342.17	2,945.99	488.44	-157.11	513.09	1.75	-1.75	0.00
	3,100.00	4.63	342.17	3,045.53	497.56	-160.05	522.67	1.75	-1.75	0.00
	3,200.00	2.88	342.17	3,145.31	503.79	-162.05	529.21	1.75	-1.75	0.00
	3,300.00	1.13	342.17	3,245.24	507.11	-163.12	532.70	1.75	-1.75	0.00
	3,364.31	0.00	0.00	3,309.55	507.71	-163.31	533.33	1.75	-1.75	0.00
5	Start 6945.45	hold at 3364.31	MD							
	3,400.00	0.00	0.00	3,345.24	507.71	-163.31	533.33	0.00	0.00	0.00
	3,500.00	0.00	0.00	3,445.24	507.71	-163.31	533.33	0.00	0.00	0.00
	3,600.00	0.00	0.00	3,545.24	507.71	-163.31	533.33	0.00	0.00	0.00
	3,700.00	0.00	0.00	3,645.24	507.71	-163.31	533.33	0.00	0.00	0.00



SDI Planning Report



Database: Company: Project: EDM5000-RobertS-Local

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-33D PAD

 Well:
 NBU 922-33D4BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 922-33D4BS

GL 4949 & KB 4 @ 4949.00ft (ASSUMED) GL 4949 & KB 4 @ 4949.00ft (ASSUMED)

True

Minimum Curvature

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,800.00	0.00	0.00	3,745.24	507.71	-163.31	533.33	0.00	0.00	0.00
3,900.00	0.00	0.00	3,845.24	507.71	-163.31	533.33	0.00	0.00	0.00
4,000.00	0.00	0.00	3,945.24	507.71	-163.31	533.33	0.00	0.00	0.00
4,100.00	0.00	0.00	4,045.24	507.71	-163.31	533.33	0.00	0.00	0.00
4,200.00	0.00	0.00	4,145.24	507.71	-163.31	533.33	0.00	0.00	0.00
4 200 00	0.00	0.00	4 245 24	E07.71	162.21	E22.22	0.00	0.00	0.00
4,300.00	0.00	0.00	4,245.24	507.71	-163.31	533.33	0.00	0.00	0.00
4,400.00	0.00	0.00	4,345.24	507.71	-163.31	533.33	0.00	0.00	0.00
4,500.00	0.00	0.00	4,445.24	507.71	-163.31	533.33	0.00	0.00	0.00
4,524.76	0.00	0.00	4,470.00	507.71	-163.31	533.33	0.00	0.00	0.00
WASATCH									
	0.00	0.00	4 545 24	E07.71	162.21	E22.22	0.00	0.00	0.00
4,600.00	0.00	0.00	4,545.24	507.71	-163.31	533.33	0.00	0.00	0.00
4,700.00	0.00	0.00	4,645.24	507.71	-163.31	533.33	0.00	0.00	0.00
			4,745.24			533.33			
4,800.00	0.00	0.00		507.71	-163.31		0.00	0.00	0.00
4,900.00	0.00	0.00	4,845.24	507.71	-163.31	533.33	0.00	0.00	0.00
5,000.00	0.00	0.00	4,945.24	507.71	-163.31	533.33	0.00	0.00	0.00
5,100.00	0.00	0.00	5,045.24	507.71	-163.31	533.33	0.00	0.00	0.00
			,						
5,200.00	0.00	0.00	5,145.24	507.71	-163.31	533.33	0.00	0.00	0.00
5,300.00	0.00	0.00	5,245.24	507.71	-163.31	533.33	0.00	0.00	0.00
5,400.00	0.00	0.00	5,345.24	507.71	-163.31	533.33	0.00	0.00	0.00
5,500.00	0.00	0.00	5,445.24		-163.31	533.33	0.00	0.00	0.00
				507.71					
5,600.00	0.00	0.00	5,545.24	507.71	-163.31	533.33	0.00	0.00	0.00
5,700.00	0.00	0.00	5,645.24	507.71	-163.31	533.33	0.00	0.00	0.00
5,800.00	0.00	0.00	5,745.24	507.71	-163.31	533.33	0.00	0.00	0.00
5,900.00	0.00	0.00	5,845.24	507.71	-163.31	533.33	0.00	0.00	0.00
6,000.00	0.00	0.00	5,945.24	507.71	-163.31	533.33	0.00	0.00	0.00
6,100.00	0.00	0.00	6,045.24	507.71	-163.31	533.33	0.00	0.00	0.00
6,200.00	0.00	0.00	6,145.24	507.71	-163.31	533.33	0.00	0.00	0.00
6,300.00	0.00	0.00	6,245.24	507.71	-163.31	533.33	0.00	0.00	0.00
6,400.00	0.00	0.00	6,345.24	507.71	-163.31	533.33	0.00	0.00	0.00
6,500.00	0.00	0.00	6,445.24	507.71	-163.31	533.33	0.00	0.00	0.00
6,600.00	0.00	0.00	6,545.24	507.71	-163.31	533.33	0.00	0.00	0.00
6,700.00	0.00	0.00	6,645.24	507.71	-163.31	533.33	0.00	0.00	0.00
6,800.00	0.00	0.00	6,745.24	507.71	-163.31	533.33	0.00	0.00	0.00
6,900.00	0.00	0.00	6,845.24	507.71	-163.31	533.33	0.00	0.00	0.00
7,000.00	0.00	0.00	6,945.24	507.71	-163.31	533.33	0.00	0.00	0.00
7,020.76	0.00	0.00	6,966.00	507.71	-163.31	533.33	0.00	0.00	0.00
MESAVERDI	E								
7,100.00	0.00	0.00	7,045.24	507.71	-163.31	533.33	0.00	0.00	0.00
7,200.00	0.00	0.00	7,145.24	507.71	-163.31	533.33	0.00	0.00	0.00
7,300.00	0.00	0.00	7,245.24	507.71	-163.31	533.33	0.00	0.00	0.00
7,400.00	0.00	0.00	7,345.24	507.71	-163.31	533.33	0.00	0.00	0.00
7,500.00	0.00	0.00	7,445.24	507.71	-163.31	533.33	0.00	0.00	0.00
7,600.00	0.00	0.00	7,545.24	507.71	-163.31	533.33	0.00	0.00	0.00
7,700.00	0.00	0.00	7,645.24	507.71	-163.31	533.33	0.00	0.00	0.00
7,800.00	0.00	0.00	7,745.24	507.71	-163.31	533.33	0.00	0.00	0.00
7,900.00	0.00	0.00	7,845.24	507.71	-163.31	533.33	0.00	0.00	0.00
8,000.00	0.00	0.00	7,945.24	507.71	-163.31	533.33	0.00	0.00	0.00
8,100.00	0.00	0.00	8,045.24	507.71	-163.31	533.33	0.00	0.00	0.00
8,200.00	0.00	0.00	8,145.24	507.71	-163.31	533.33	0.00	0.00	0.00
8,300.00	0.00	0.00	8,245.24	507.71	-163.31	533.33	0.00	0.00	0.00
			,						
8,400.00	0.00	0.00	8,345.24	507.71	-163.31	533.33	0.00	0.00	0.00
8,500.00	0.00	0.00	8,445.24	507.71	-163.31	533.33	0.00	0.00	0.00
	0.00	0.00	8,545.24	507.71	162 24	533.33	0.00	0.00	0.00
0 600 00		O OO	0.040.24	507.71	-163.31	ეაა. აა	0.00	0.00	0.00
8,600.00 8,700.00	0.00	0.00	8,645.24	507.71	-163.31	533.33	0.00	0.00	0.00



SDIPlanning Report



Database: Company: EDM5000-RobertS-Local

US ROCKIES REGION PLANNING

Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-33D PAD

 Well:
 NBU 922-33D4BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 922-33D4BS

GL 4949 & KB 4 @ 4949.00ft (ASSUMED)

GL 4949 & KB 4 @ 4949.00ft (ASSUMED)

True

Minimum Curvature

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.00 8,900.00 9,000.00	0.00 0.00 0.00	0.00 0.00 0.00	8,745.24 8,845.24 8,945.24	507.71 507.71 507.71	-163.31 -163.31 -163.31	533.33 533.33 533.33	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
9,100.00 9,200.00 9,210.76	0.00 0.00 0.00	0.00 0.00 0.00	9,045.24 9,145.24 9,156.00	507.71 507.71 507.71	-163.31 -163.31 -163.31	533.33 533.33 533.33	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
SEGO - SEG	O_NBU 922-33D	4BS							
9,256.76	0.00	0.00	9,202.00	507.71	-163.31	533.33	0.00	0.00	0.00
CASTLEGAT	ΓE								
9,300.00	0.00	0.00	9,245.24	507.71	-163.31	533.33	0.00	0.00	0.00
9,400.00 9,500.00 9,600.00 9,700.00 9,709.76	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	9,345.24 9,445.24 9,545.24 9,645.24 9,655.00	507.71 507.71 507.71 507.71 507.71	-163.31 -163.31 -163.31 -163.31	533.33 533.33 533.33 533.33 533.33	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
BLACKHAW	K								
9,800.00 9,900.00 10,000.00 10,100.00 10,200.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	9,745.24 9,845.24 9,945.24 10,045.24 10,145.24 10,245.24	507.71 507.71 507.71 507.71 507.71	-163.31 -163.31 -163.31 -163.31 -163.31	533.33 533.33 533.33 533.33 533.33	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
10,309.76	0.00	0.00	10,255.00	507.71	-163.31	533.33	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SEGO_NBU 922-33D4B - plan hits target cent - Circle (radius 25.00		0.00	9,156.00	507.71	-163.31	14,528,946.26	2,074,298.99	39.997614	-109.450830
PBHL_NBU 922-33D4B - plan hits target cent - Circle (radius 100.0		0.00	10,255.00	507.71	-163.31	14,528,946.26	2,074,298.99	39.997614	-109.450830

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(ft)	(ft)	Name	(in)	(in)
	2,443.85	2,400.00	8 5/8"	8.625	11.000



SDIPlanning Report



Database: Company: EDM5000-RobertS-Local

US ROCKIES REGION PLANNING

 Project:
 UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-33D PAD

Well: NBU 922-33D4BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 922-33D4BS

GL 4949 & KB 4 @ 4949.00ft (ASSUMED) GL 4949 & KB 4 @ 4949.00ft (ASSUMED)

True

Minimum Curvature

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,244.10	1,231.00	GREEN RIVER				
	1,614.60	1,592.00	BIRDSNEST				
	1,982.01	1,950.00	MAHOGANY				
	4,524.76	4,470.00	WASATCH				
	7,020.76	6,966.00	MESAVERDE				
	9,210.76	9,156.00	SEGO				
	9,256.76	9,202.00	CASTLEGATE				
	9,709.76	9,655.00	BLACKHAWK				

Plan Annotations				
Measured Vertical Local Coordinates				
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
950.00	944.44	69.90	-22.48	Start 1671.46 hold at 950.00 MD
2,621.46	2,573.05	427.83	-137.62	Start Drop -1.75
3,364.31	3,309.55	507.71	-163.31	Start 6945.45 hold at 3364.31 MD
10,309.76	10,255.00	507.71	-163.31	TD at 10309.76

NBU 922-33C1CS/ 922-33D1CS/ 922-33D3DS/ 922-33D4BS Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 1 of 5

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 922-33D PAD

API #4304750509		NBU 922-33C1CS						
	Surface:	1303 FNL / 995 FWL	NWNW	Lot				
	BHL:	552 FNL / 2129 FWL	NENW	Lot				
API #4304750508		NBU 922-33D1CS						
	Surface:	1309 FNL / 987 FWL	NWNW	Lot				
	BHL:	481 FNL / 811 FWL	NWNW	Lot				
API #4304750507 NBU 922-33D3DS								
	Surface:	1319 FNL / 970 FWL	NWNW	Lot				
	BHL:	1060 FNL / 469 FWL	NWNW	Lot				
API #4304750510		NBU 922-33D4BS						
	Surface:	1314 FNL / 978 FWL	NWNW	Lot				
	BHL:	806 FNL / 815 FWL	NWNW	Lot				

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on August 16-17, 2012. Present were:

- Dave Gordon, Tyler Cox, Aaron Roe and Brian Barnett BLM;
- Jessi Brunson USFWS;
- · Bill Knapp ICF Consulting;
- · Jacob Dunham 609 Consulting;
- · Mitch Batty Timberline Engineering & Land Surveying, Inc.; and
- · Gina Becker, Charles Chase, Lindsey Frazier, Doyle Holmes, Randy Townley and Casey McKee- Kerr-McGee

A. Existing Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Topo B for existing roads.

B. New or Reconstructed Access Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

No new access road is proposed. Please refer to Topo B.

NBU 922-33C1CS/ 922-33D1CS/ 922-33D3DS/ 922-33D4BS Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 2 of 5

C. Location of Existing Wells:

Please refer to Topo C for exiting wells.

D. Location of Existing and/or Proposed Facilities:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

This pad will expand the existing pad for the NBU 922-33D, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on November 1, 2012. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

GAS GATHERING

Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.

The total gas gathering pipeline distance from the meter to the tie in point is $\pm 1,690$ ' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±310' (0.06 miles) Section 33 T9S R22E (NW/4 NW/4) On-lease UTU-01191-A, BLM surface, New 6" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- ±1,185' (0.2 miles) Section 33 T9S R22E (NW/4 NW/4) On-lease UTU-01191-A, BLM surface, New 6" buried gas gathering pipeline from the edge of the pad to the NBU 922-33E Pad pipeline intersection. Please refer to Exhibit A Gas Gathering- Line 17 and 16.
 - ±195' (0.04 miles) Section 33 T9S R22E (SW/4 NW/4) On-lease UTU-01191-A, BLM surface, New 8" buried gas gathering pipeline from the NBU 922-33E Pad pipeline intersection to tie in to the existing 16" gas pipeline to the South. This pipeline will be used concurrently with the NBU 922-33E Pad. Please refer to Exhibit A Gas Gathering- Line 14.

LIQUID GATHERING

Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 1,690$ ' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±310' (0.06 miles) Section 33 T9S R22E (NW/4 NW/4) On-lease UTU-01191-A, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- ±1,185' (0.2 miles) Section 33 T9S R22E (NW/4 NW/4) On-lease UTU-01191-A, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to the NBU 922-33E Pad pipeline intersection. Please refer to Exhibit B Liquid Gathering- Line 17 and Line 16.
 - ±195' (0.04 miles) Section 33 T9S R22E (SW/4 NW/4) On-lease UTU-01191-A, BLM surface, New 6" buried liquid gathering pipeline from the NBU 922-33E Pad pipeline intersection to tie in to the existing 6" liquid pipeline to the South. This pipeline will be used concurrently with the NBU 922-33E Pad. Please refer to Exhibit B Liquid Gathering- Line 14.

NBU 922-33C1CS/ 922-33D1CS/ 922-33D3DS/ 922-33D4BS Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 3 of 5

Pipeline Gathering Construction

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

The Anadarko Completions Transportation System (ACTS) information:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Exhibit C for ACTS Lines

E. Location and Types of Water Supply:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

F. Construction Materials:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

G. Methods for Handling Waste:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Materials Management

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

J. Plans for Surface Reclamation:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Interim Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Measures Common to Interim and Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-33C1CS/ 922-33D1CS/ 922-33D3DS/ 922-33D4BS Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 4 of 5

Weed Control

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Monitoring

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

K. Surface/Mineral Ownership:

United States of America Bureau of Land Management 170 South 500 East Vernal, UT 84078 (435)781-4400

L. Other Information:

Cultural and Paleontological Resources

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Resource Reports:

A Class I literature survey was completed on September 21, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC-12-264.

A paleontological reconnaissance survey was completed on August 28, 2012 by SWCA Environmental Consultants. For additional details please refer to report SWCA-UT12-14314-177.

Biological field survey was completed on August 25, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-833 and 841.

Proposed Action Annual Emissions Tables:

Please refer to the Appendix in the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-33C1CS/ 922-33D1CS/ 922-33D3DS/ 922-33D4BS Kerr-McGee Oil Gas Onshore, L.P. Surface Use Plan of Operations 5 of 5

M. Lessee's or Operators' Representative & Certification:

Gina T. Becker Senior Regulatory Analyst Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6086 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

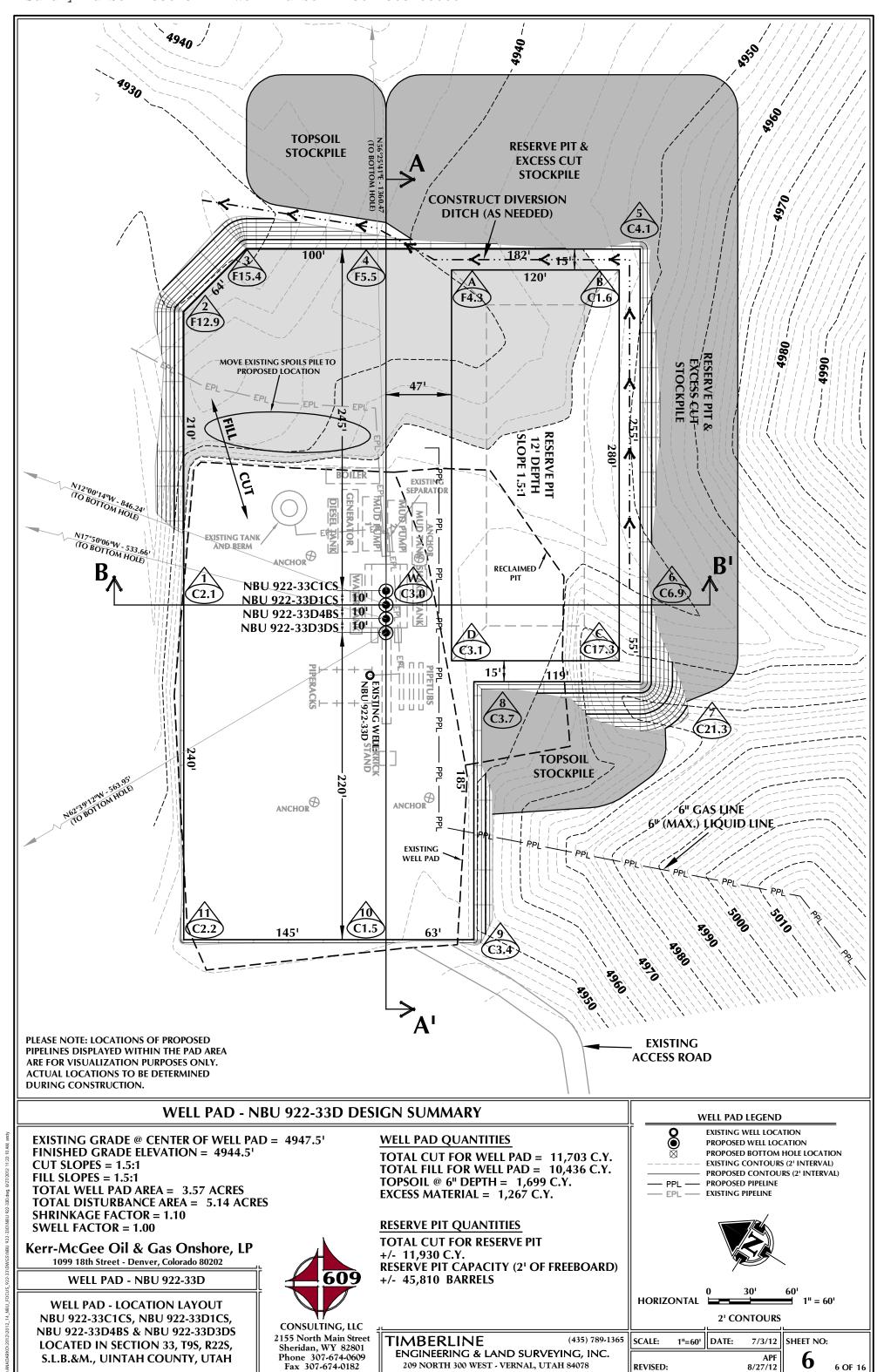
I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Gina T.Becker

November 5, 2012

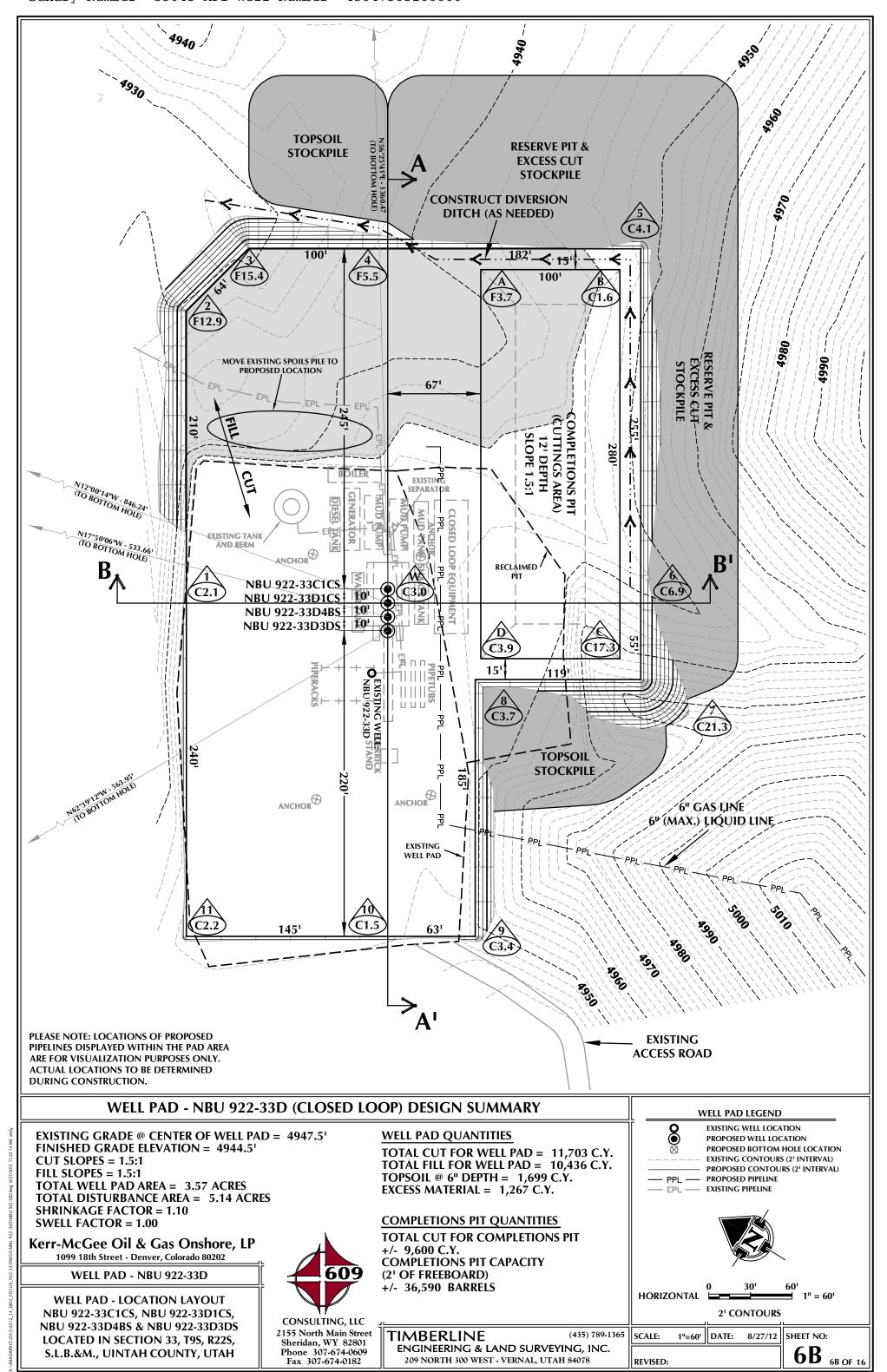
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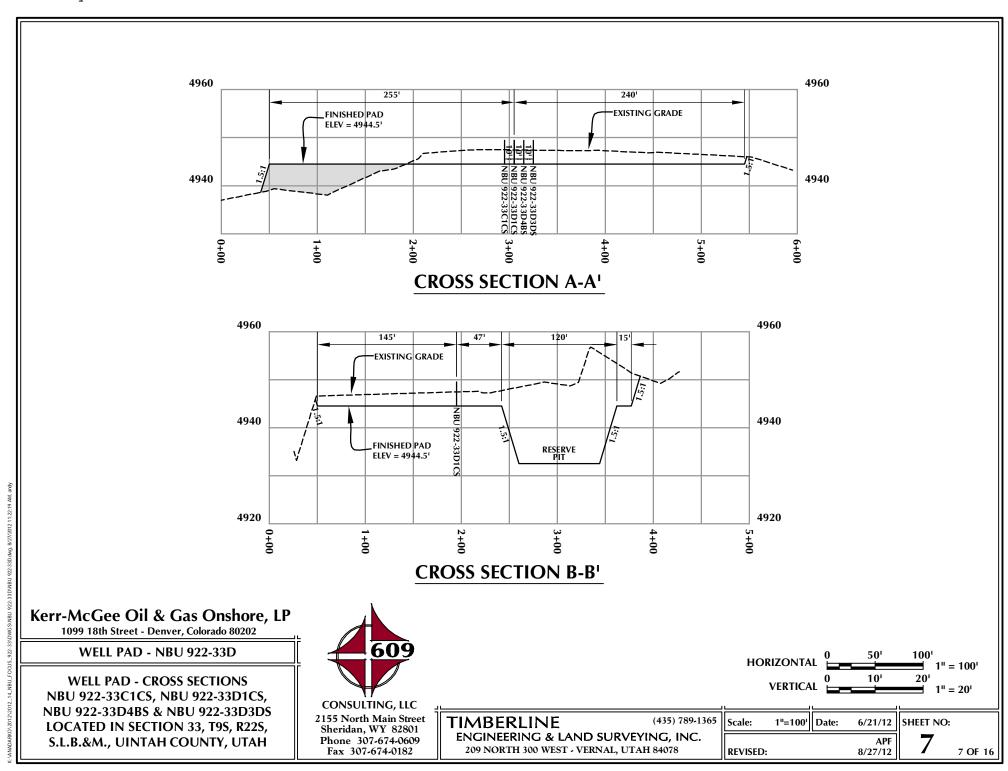
	SURFACE POSITION							BOTTOM HOLE					
WELL NAME	NAI		DE LATITUT	NAD27	CITUDE	FOOTAGES	JATIT	NAE		CITUDE	NAI		EOOT & CEC
NBU	LATITUDE 39°59'46.372"	109°27'03.1	DE LATITUI 33" 39°59'46.		GITUDE 7'00.670"	1303 FNL	LATIT 39°59'5			GITUDE 6'48.570"	LATITUDE 39°59'53.929"	LONGITUDE 109°26'46.108"	FOOTAGES 552' FNL
922-33C1CS	39.996215°	109.450870	939.996249	9° 109.45	50186°	995' FWL	39.9982	279°	109.4	46825°	39.998314°	109.446141°	21291 FWL
NBU 922-33D1CS	39°59'46.319" 39.996200°	109°27'03.2 109.450901			7'00.779" 50216°	1309' FNL 987' FWL	39°59'5 39.998	54.497" 471°		7'05.501" 51528°	39°59'54.622" 39.998506°	109°27'03.038" 109.450844°	481' FNL 811' FWL
NBU	39°59'46.266"	109°27'03.3	39°59'46.	392" 109°2;	7'00.888"	1314' FNL	39°59'5	51.286"	109°2	7'05.449"	39°59'51.411"	109°27'02.986"	806' FNL
922-33D4BS NBU	39.996185° 39°59'46.214"	109.450931 ¹			50247° 7'00.996"	978' FWL 1319' FNL	39.997.	579° 48.774"		51514° 7'09.893"	39.997614° 39°59'48.899"	109.450830° 109°27'07.430"	815' FWL 1060' FNL
922-33D3DS	39°59°46.214 39.996171°	109.450961	39.996205	5° 109.45	7 00.996" 50277°	970' FWL	39.592		1.05 -	/'09.893" 52748°	39°59°48.899° 39.996916°	109°27'07.430" 109.452064°	1060' FNL 469' FWL
NBU	39°59'46.150"		39°59'46		7'01.407"	1326' FNL							
922-33D	39.996153°	109.451075			SO391°	938' FWL - From Surface	Position	to Bott	om Ho	le le			
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAS		NAME	NOR		EAST	WELL NAM	IE NORTH	EAST
NBU	752.31	11335	NBU	827.71	-176.	O' NBU		508	.0'	-163.4	NBU	259.1	-500.91
922-33C1CS			922-33D1CS	<u> </u>	<u> </u>	922-33	3D4BS				922-33D3D	75	<u> </u>
		EXISTING	AZZ97.34 39'12'W Bottom Hole WELL: NB	(to Boles, 663, 95)	79/00/2	N12°00'14"W -846.24'	notiom Hole)	OF T S.L.B Glo	THE N' B.&M. BAL P	W ¼ OF S WHICH I POSITION TIONS TO	S IS THE WES ECTION 33, T S TAKEN FRC IING SATELLI D BEAR NOO A 2 30 TO BOTTON	9S, R22E, DM FE 00'59"W.	
1099 1	S C A I	G Gas Onver, Colora	nshore, L				NBU 922-33U303	1	C. C	Krist W.H. 123, 280338 37.6			
\A/EI	L PAD - N	NBU 921	2-33D	Ħį	4	609		TI	MF	BERL	INF	(4	35) 789-136
VVI	· /\D -	100 72	_ 555	<u>_</u>	1			- 11				SURVEYING	
VVEL				П	1			Ш			00 WEST - VEF		
	PAD INTE	RFEREN	CE PLAT			11					00 11 E01 - 1 E1	INAL, UTAR 64	378
WELL WELLS - NE	3U 922-33C 1	ICS, NBU	922-33D1C	cs,		ULTING, LL			E SURV		SURVEYED E	-	SHEET NC
WELL WELLS - NE NBU 92	3U 922-33C1 22-33D4BS &	ICS, NBU & NBU 922	922-33D1C 2-33D3DS	es,	2155 No	orth Main Stre	et	5-29	E SURV	EYED:	SURVEYED E	Y: A.F.	
WELL WELLS - NE NBU 92 LOCAT	3U 922-33C 1	ICS, NBU & NBU 922 ION 33, T	922-33D1C 2-33D3DS 9S, R22E,	es,	2155 No Sherida		eet I	5-29	E SURV -12 E DRAV	EYED:		Y: A.F. T.J.R.	

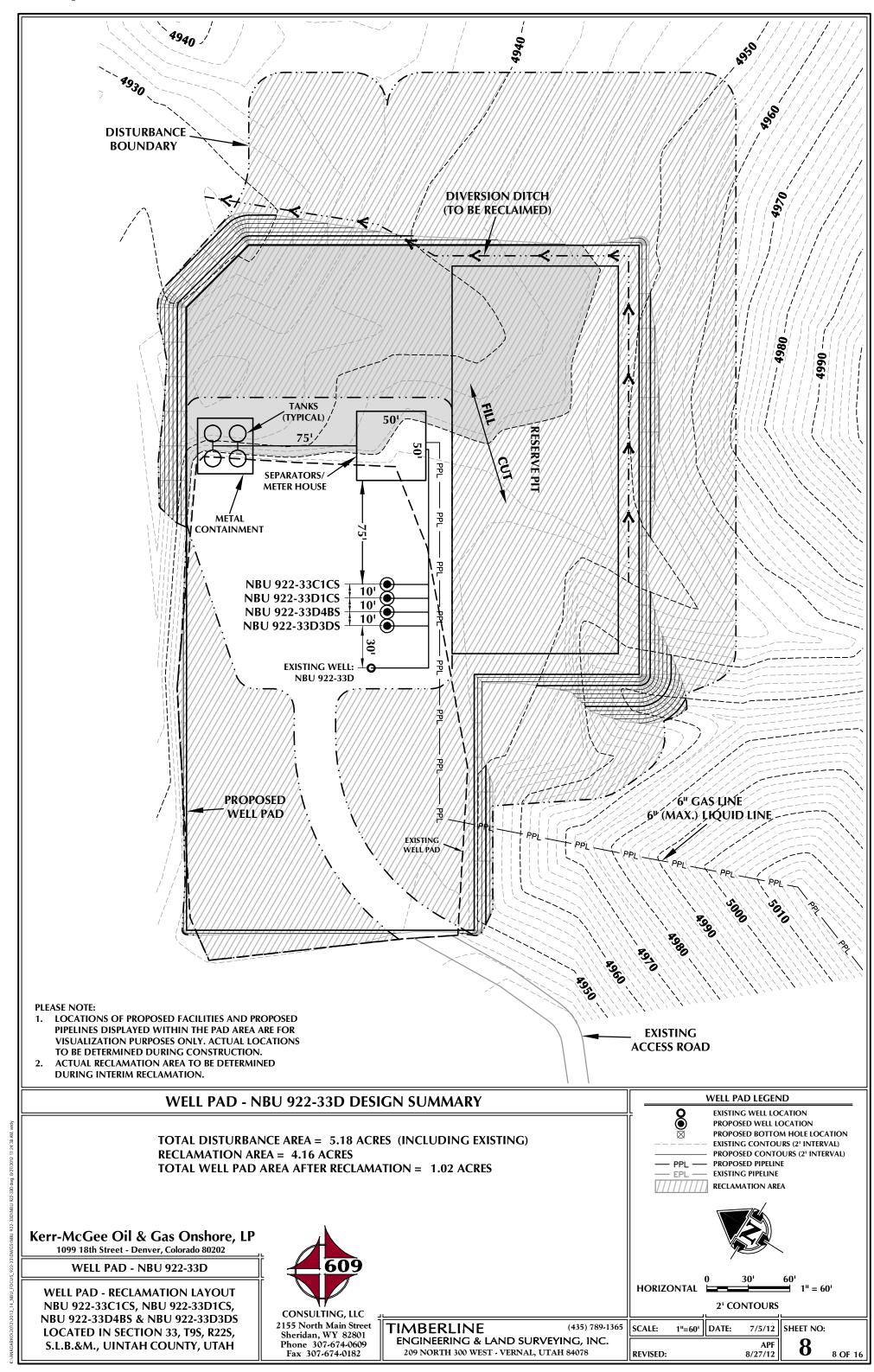


6 OF 16

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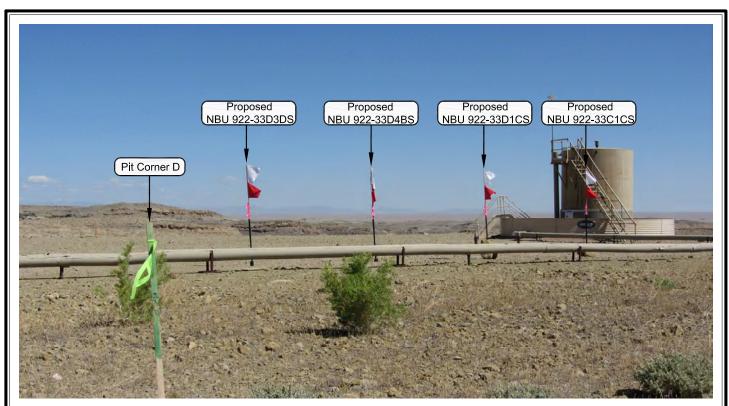


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE





PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHERLY

Kerr-McGee Oil & Gas Onshore, LP 1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-33D

LOCATION PHOTOS
NBU 922-33C1CS, NBU 922-33D1CS,
NBU 922-33D4BS & NBU 922-33D3DS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH.



CONSULTING, LLC 2155 North Main Street Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

TIMBERLINE

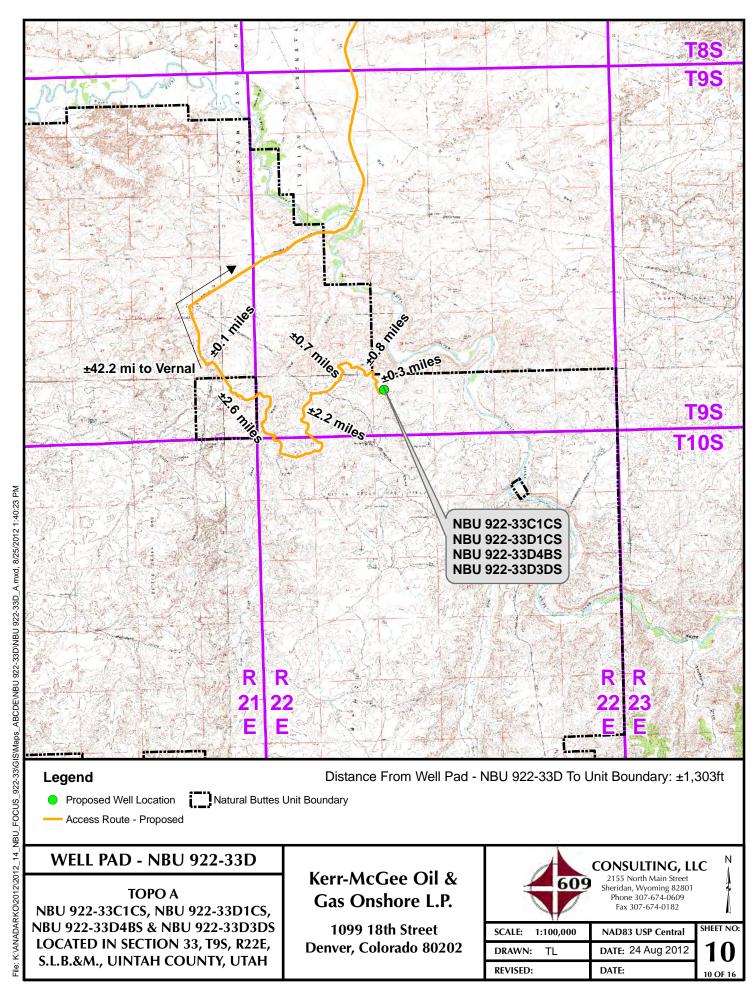
Date Last Revised:

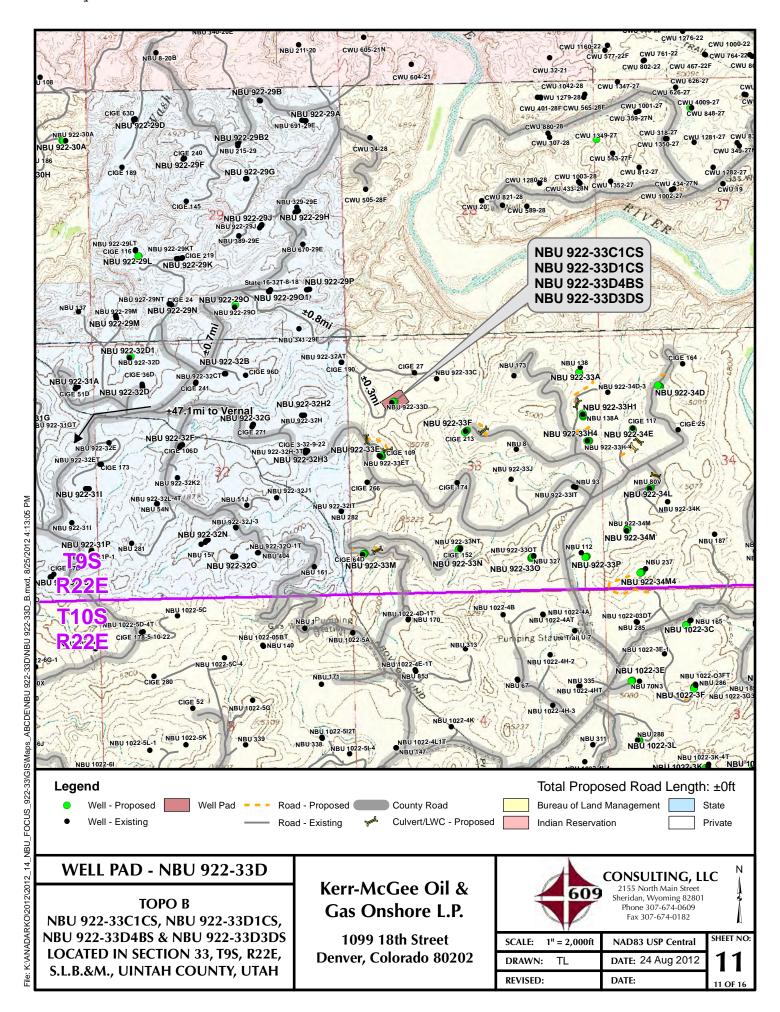
(435) 789-1365

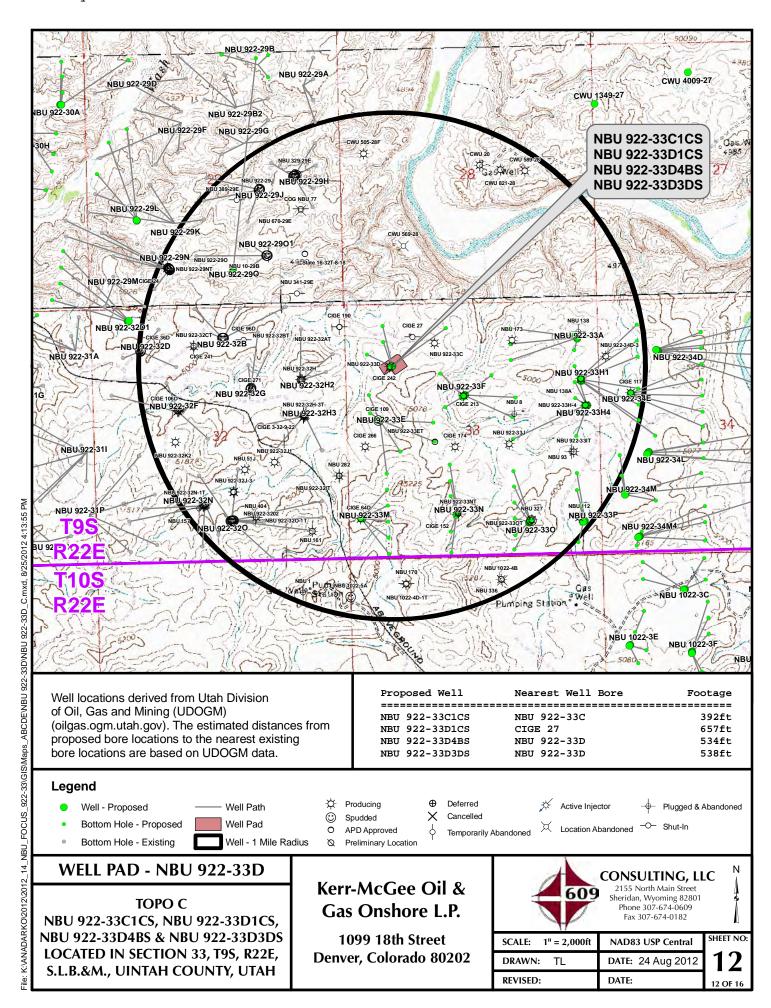
9 OF 16

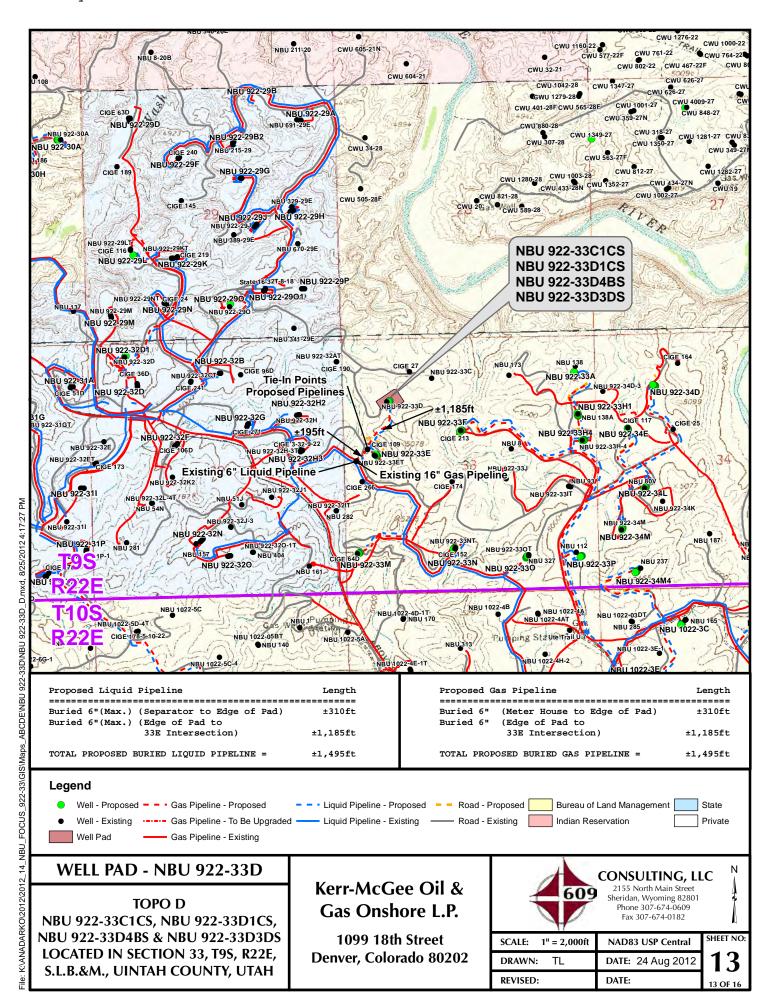
ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

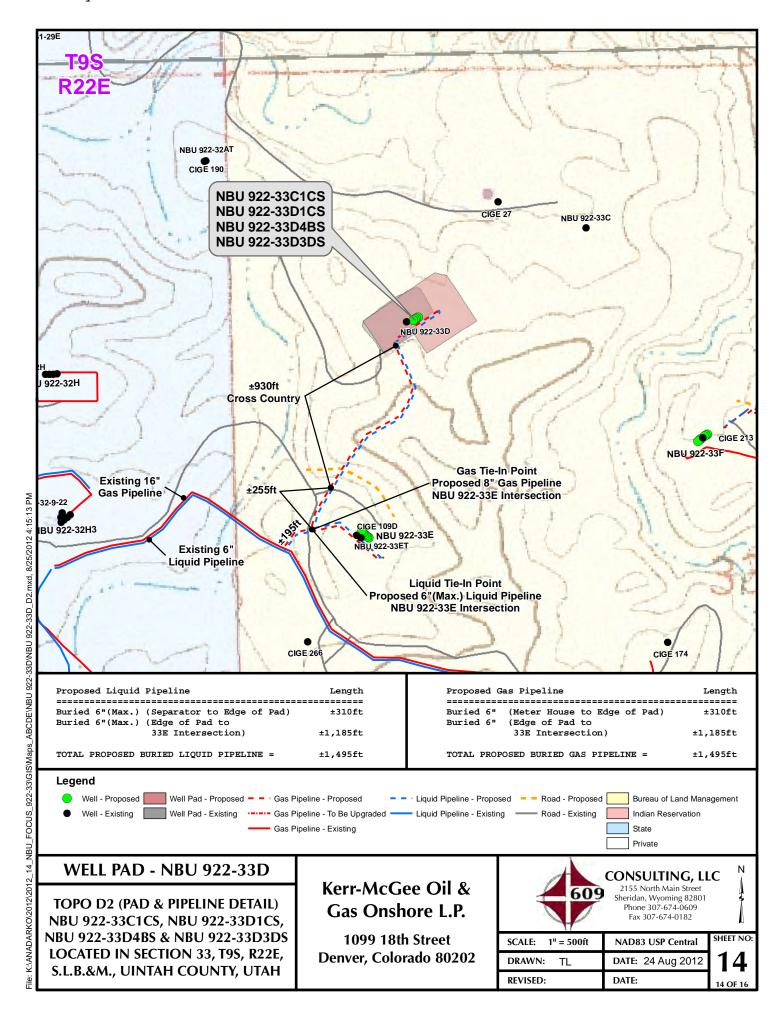
DATE PHOTOS TAKEN: 5-29-12	PHOTOS TAKEN BY: A.F.	SHEET NO:
DATE DRAWN: 6-12-12	DRAWN BY: T.J.R.	9











Sundry Number: 33045 API Well Number: 43047505100000 NBU 922-29B CWU 4009-27 CWU 1349-27 BU 922-30A NBU 922-29F NBU 922-29G USA UTU 0462 ST UT ML 5014 NBU 922-33C1CS NBU 922-29H NBU 922-33D1CS NBU 922-29J **NBU 922-33D4BS** TU 0463 NBU 922-33D3DS NBU 922-29K UT ST UO 1207 S NBU 922-290 NBU 922-29 IBU 922-29M UO 01530 ST NBU 922-32D1 NBU 922-32B NBU 922-32D VBU 922-33H1 NBU-922-32H2 NBU 922-33F NBU 922-32G NBU 922-33H4 UO 01530-A ST ST UT ML-22649 USA UTU 0149 USA,UTU 01191-A NBU 922-311 USA UTU 011336 NBU 922-33N NBU 922-33M NBU 1022-30 ping Station Distance To Proposed Well Nearest Lease Boundary -----------NBU 922-33C1CS 552ft NBU 922-33D1CS 481ft NBU 922-33D4BS 806ft 469ft NBU 922-33D3DS Legend Well - Proposed Well Pad Gas Pipeline - Proposed Liquid Pipeline - Proposed - Road - Proposed Bureau of Land Management Bottom Hole - Proposed Lease Boundary Gas Pipeline - To Be Upgraded Liquid Pipeline - Existing Indian Reservation Bottom Hole - Existing Gas Pipeline - Existing State Private WELL PAD - NBU 922-33D CONSULTING, LLC Kerr-McGee Oil & 2155 North Main Street 609 Sheridan, Wyoming 82801 TOPO E Phone 307-674-0609 Gas Onshore L.P. Fax 307-674-0182 NBU 922-33C1CS, NBU 922-33D1CS,

NBU 922-33D4BS & NBU 922-33D3DS 1099 18th Street SHEET NO NAD83 USP Central SCALE: 1'' = 2,000 ftLOCATED IN SECTION 33, T9S, R22E, Denver, Colorado 80202 DRAWN: TL **DATE: 24 Aug 2012** S.L.B.&M., UINTAH COUNTY, UTAH REVISED: DATE: 15 OF 16 RECEIVED: Dec. 12, 2012

ABCDE\NBU 922-33D\NBU 922-33D

Form 3160-3	
(August, 2007)	

Expires: July 31, 2010

UNITED STATES

DEPARTMENT OF THE	12 23 4 12 45	3 /	on å lør	5.	Lease Seria	l No.	
BUREAU OF LAND MA	NAGEME	ŊT what he	N. 1 P. 286		707 11 .	UTU-0119	
APPLICATION FOR PERMIT TO	DRILL C	R REENTE	R	6.	If Indian, A	llottee or Tri N/A	be Name
1a. Type of Work: X DRILL	REENTER			7.	If Unit or C UTU6304		t, Name and No.
1b. Type of Well: Oil Well X Gas Well Other	Single	e Zone X Mul	tiple Zone	8.		e and Well N NBU 922-33	
2. Name of Operator				9.	API Well N	lo.	
KERR-MCGEE OIL & GAS	ONSHORI	E. L.P.				43047505	10
3a. Address		. (include area co	de)	10.	Field and P	ool, or Explo	ratory
P.O. BOX 173779	PHONE	720-929-6	6086			ATURAL B	•
DENVER, COLORADO 80202-3779	FAX	720-929-7					
Location of well (Report location clearly and In accordance At surface	ce with any Sta	te requirements.*))	11.	Sec.,T.,R.,	M.,or Blk.an	d Survey or Are
NWNW 1314 FNL 978 FWL LA	AT = 39.996	185 LONG =	-109.4509	31	22		
At proposed NWNW 806 FNL 815 FWL LA		579 LONG =	-109.4515	14	33 T	9S 1	R 22E
14. Distance in miles and direction from the nearest town or po	st office*			12.	County or F	arish	13. State
Approximately 49 miles Southeas	t of Vernal, Ut	ah			UINT	TAH	UT
15. Distance from proposed* location to nearest	16. N	o. of acres in lease	e 17.	Spacing	Unit dedica	ated to this w	ell
property or lease line, ft. (Also to nearest drlg. unit line, if any)		1363.21					
18. Distance from proposed location*	19 P	roposed Depth	20	BI M/I	BIA Bond N	o on file	
to nearest well, drilling, completed, applied for, on this lease, ft. 534	103	10 MD	20.	DL/M/ 1		VYB000291	
21. Elevations (Show whether DF. RT, GR, etc.)		pproximate date w	vork will st	art*		ted duration	
4944.5 GR		5/9/201				60-90 D	AVS
	24. At	tachments	·			00-2012.	A15
The following, completed in accordance with the requirements	of Onshore Oil	and Gas Order No	o. 1 shall b	e attach	ed to this for	rm:	
1. Well plat certified by a registered surveyor.		4. Bond to cove	er the opera	ations u	nless covere	d by existing	bond on file(see
2. A Drilling Plan.		item 20 abov					
3. A Surface Use Plan (if the location is on National Forest S SUPO shall be filed with the appropriate Forest Service Off							
SOFO shan be fried with the appropriate Forest Service Off	nce).	6. Such other s		inform	ation and/ or	plans as may	be required by the
25. Signature B. L.	Name (Printe	d/ Typed)	GINA T	BECK	ER	Date N	ovember 9, 2012
Title SENIOR REGULATORY ANALYST					<u></u> -L	···	······································
Approved By (Signature)	Name (Printed	Jerry Ke	enczka	<u> </u>		Date	
Title Assistant Field Manager	Office	- J				MA\	<u> 28 2013 </u>
Lands & Mineral Resources		VERNAL FIE	ELD OF	FICE			RECEIVED
Application approval does not warrant or certify that the applicant	holds legal or	equitable title to the	ose rights i	n the su	ibject lease v	vhich would e	ntitle the applicant to
conduct operations thereon. Conditions of approval, if any, are attached.	IUNS UF A	PPROVAL AT	1.7				MAY 3 1 2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the standard No. States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.





UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE**

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No: API No:

KERR MCGEE OIL & GAS ONSHORE

170 South 500 East

NBU 922-33D4BS

43-047-50510

Location: Lease No:

Agreement:

NWNW, Sec. 33, T9S, R22E

UTU-01191A

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER:

(435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	_	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 7 Well: NBU 922-33D4BS

5/17/2013

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop
 work and contact the Authorized Officer (AO). A determination will be made by the AO as to what
 mitigation may be necessary for the discovered paleontologic material before construction can
 continue.
- Mitigation measures can be found in Appendix B, Table B-2, of the GNB ROD (BLM 2012b) under the following sections of the table:
 - o Air Quality
 - o Soils
 - Vegetation: Sclerocactus wetlandicus
 - Wildlife: Colorado River Fish
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.
- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an
 integrated pest management program is applicable, coordination has been undertaken with the
 state and local management program (if existing). A copy of the pest management plan will be
 submitted for each project.
- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- Paleontological monitoring by a BLM permitted paleontologist is required for Well Pads 922-33A, 922-33D, 922-33E, 922-33H, and 922-33N; Access Road for 922-33E during all ground disturbing activities (BLM 2012b; BLM 2013c).

Page 3 of 7 Well: NBU 922-33D4BS 5/17/2013

 Construction and development activities for Well Pads 922-33D and 922-33F will be prohibited from 12/1 through 9/31, pending the results of a preconstruction nest occupancy survey for Great Horned Owl Nest(BLM 2012b; BLM 2008a).

 Damage to livestock and livestock facilities would be reported as quickly as possible to the BLM and affected livestock operators. Operators would develop and employ prevention measures to avoid damaging fences, gates, and cattleguards, including upgrading cattleguard gate widths and load-bearing requirements and fencing all open pits and cellars.

If partial or complete removal of a fence cannot be avoided, the fence would be braced and tied off per the BLM guidance. Where the fence is crossed by a road, the fence would be braced and a cattleguard and gate installed per BLM guidance.

Page 4 of 7 Well: NBU 922-33D4BS

5/17/2013

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Cement for the 4.5 inch casing shall be brought up to a minimum of 200 feet above the surface casing shoe.
- A CBL shall be run from TD to TOC in the Production Casing.
- Variances shall be granted as requested in Section 9 of the Drilling Program of the SOP.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and NOT by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- · Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each

Page 5 of 7 Well: NBU 922-33D4BS 5/17/2013

encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
 Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well by CD (compact disc).
 This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

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5/17/2013

OPERATING REQUIREMENT REMINDERS:

 All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written communication
 and must be received in this office by not later than the fifth business day following the date on
 which the well is placed on production. The notification shall provide, as a minimum, the following
 informational items:
 - o Operator name, address, and telephone number.
 - o Well name and number.
 - o Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - o The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be
 reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported
 verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will
 be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of
 Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

Page 7 of 7 Well: NBU 922-33D4BS

5/17/2013

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

 All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
 lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a
 suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be
 obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior approval
 of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
 approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
 of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Sundry Number: 39796 API Well Number: 43047505100000

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 01191A
SUNDF	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizo n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-33D4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047505100000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	9. FIELD and POOL or WILDCAT: 65NATURAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1314 FNL 0978 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 33 Township: 09.0S Range: 22.0E Mer	idian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
7/15/2013	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:
40. DECORUDE DECORUSE OF		United the state of the state o	
Kerr-McGee Oil & G an extension to this	COMPLETED OPERATIONS. Clearly show a case of the case	ee) respectfully requests allowed. Please contact	Approved by the Utah Division of Oil, Gas and Mining
			Date: July 10, 2013
			By: Backylll
NAME (DI EASE DOINT)	DHOME NUMB	ER TITLE	
NAME (PLEASE PRINT) Teena Paulo	PHONE NUMB 720 929-6236	Staff Regulatory Specialist	
SIGNATURE N/A		DATE 7/5/2013	

Sundry Number: 39796 API Well Number: 43047505100000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047505100000

API: 43047505100000 Well Name: NBU 922-33D4BS

Location: 1314 FNL 0978 FWL QTR NWNW SEC 33 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 7/15/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has Yes No	the ownership changed, if so, has the surface agreement been updated?	
 Have any wells been drilled in requirements for this location 	the vicinity of the proposed well which would affect the spacing or siting ?	
Has there been any unit or ot proposed well?	ner agreements put in place that could affect the permitting or operation of t No	thi
Have there been any changes proposed location?	to the access route including ownership, or rightof- way, which could affect No	th
• Has the approved source of w	ater for drilling changed? 🔘 Yes 🃵 No	
	changes to the surface location or access route which will require a change is do not at the onsite evaluation?	in
• Is bonding still in place, whic	n covers this proposed well? 🌘 Yes 🔘 No	
ı nature: Teena Paulo	Date: 7/5/2013	

Title: Staff Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

	STATE OF UTAH		FORM 9					
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MINI		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 01191A					
SUNDF	RY NOTICES AND REPORTS C	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:					
	oposals to drill new wells, significantly d reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES					
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-33D4BS					
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047505100000					
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18t	9. FIELD and POOL or WILDCAT:							
4. LOCATION OF WELL FOOTAGES AT SURFACE:			COUNTY: UINTAH					
QTR/QTR, SECTION, TOWNS	1314 FNL 0978 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 33 Township: 09.0S Range: 22.0E Meridian: S							
11. CHEC	K APPROPRIATE BOXES TO INDICATE	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA					
TYPE OF SUBMISSION		TYPE OF ACTION						
Kerr-McGee Oil & G an extension to this	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show all cas Onshore, L.P. (Kerr-McGe APD for the maximum time a with any questions and/or co	e) respectfully requests llowed. Please contact	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL ✓ APD EXTENSION OTHER: Depths, volumes, etc. Approved by the Utah Division of Oil, Gas and Mining May 12, 2014 Date: By:					
NAME (PLEASE PRINT)	PHONE NUMBE	R TITLE						
Teena Paulo	720 929-6236	Staff Regulatory Specialist						
SIGNATURE N/A		DATE 5/7/2014						



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047505100000

API: 43047505100000 **Well Name:** NBU 922-33D4BS

Location: 1314 FNL 0978 FWL QTR NWNW SEC 33 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

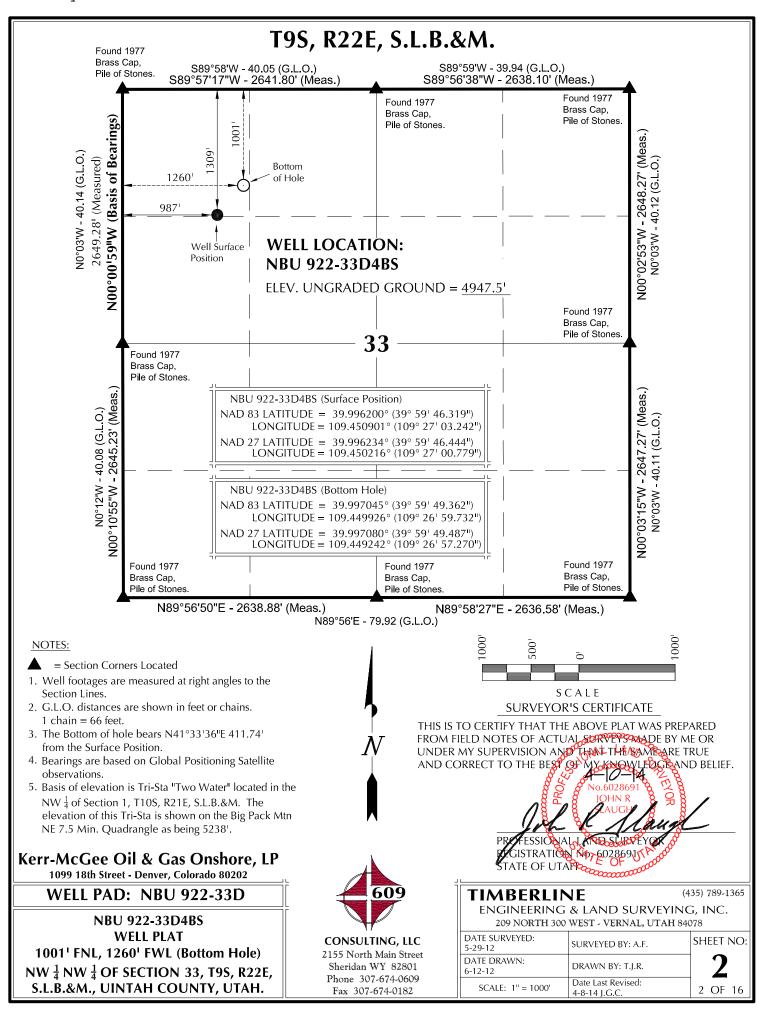
Date Original Permit Issued: 7/15/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

	io a officentification com	o itomo rolatoa to tilo	application, will	on onouna be	voi illou.	
	cated on private land • 📵 No	d, has the ownership o	changed, if so, h	as the surfac	e agreement be	∍n updated? 🤵
		lled in the vicinity of teation? (Yes (ll which woul	d affect the spa	cing or siting
	there been any unit bosed well? 🤵 Ye	or other agreements s No	put in place that	could affect	the permitting	or operation of thi
	e there been any cha	anges to the access ro Yes 🌘 No	oute including ov	vnership, or ı	ightof- way, wh	ich could affect th
• Has	the approved source	e of water for drilling	changed? 🔵 🗅	res 📵 No		
		rsical changes to the c cussed at the onsite o	ACTION AND ADDRESS OF THE PARTY	A STATE OF		quire a change in
• Is bo	onding still in place,	which covers this pro	pposed well? 🌘	Yes 📄 N	0	
Signature:	Teena Paulo	Date:	5/7/2014			

Title: Staff Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES		FORM 9
l	DIVISION OF OIL, GAS, AND MINING	G	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 01191A
SUNDR	RY NOTICES AND REPORTS ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for pro current bottom-hole depth, FOR PERMIT TO DRILL form	oposals to drill new wells, significantly dee reenter plugged wells, or to drill horizontal n for such proposals.	pen existing wells below laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-33D4BS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047505100000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	PHO h Street, Suite 600, Denver, CO, 80217 37	ONE NUMBER: 720 929-6	9. FIELD and POOL or WILDCAT: 1NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1309 FNL 0987 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 33 Township: 09.0S Range: 22.0E Meridiar	n: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICATE N	IATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
l .	CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show all permissions.		
surface bottom hole the revised surve surface use plan of you. PREVIOUS 109.450931 NEV 109.450901 PREVI 109.451514 NEW	Gas Onshore LP respectfully rede locations of the NBU 922-33D4 plat package, directional plans operations for updated locatio S SHL: 1314 FNL 978 FWL LAT 3V SHL: 1309 FNL 987 FWL LAT IOUS BHL: 806 FNL 815 FWL LAT 109.449926	ABS well. Please see and dill program and ninformation. Thank 39.996185 LONG 39.996200 LONG AT 39.997045 LONG 39.997045 LONG	Approved by the UtebrDavisiton, 2015 Oil, Gas and Mining Date: By:
NAME (PLEASE PRINT) Kristina Geno	PHONE NUMBER 720 929-6824	TITLE Regulatory Analyst	
SIGNATURE N/A		DATE 2/12/2015	



Kerr-McGee Oil & Gas Onshore, LP WELL PAD – NBU 922-33D WELLS – NBU 922-33C1CS, NBU 922-33D4BS, NBU 922-33D1CS & NBU 922-33D3DS Section 33, T9S, R22E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 18.7 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 0.1 miles to a second Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the second Class D County Road approximately 2.6 miles to a third Class D County Road to the east. Exit left and proceed in an easterly, then northeasterly, then easterly direction along the third Class D County Road approximately 2.2 miles to a fourth Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the fourth Class D County Road approximately 0.7 miles to a service road to the southeast. Exit right and proceed in a southeasterly direction along the service road approximately 0.8 miles to a second service road to the south. Exit right and proceed in a southerly, then easterly direction along the second service road approximately 0.3 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 48.9 miles in a southerly direction.

SHEET 16 OF 16

NBU 922-33E Pad Drilling Program
1 of 7

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 922-33D4BS

Surface: 1309 FNL / 987 FWL NWNW

BHL: 1001 FNL / 1260 FWL NWNW

Section 33 T9S R22E

Unitah County, Utah Mineral Lease: UTU-01191-A

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2.a <u>Estimated Tops of Important Geologic Markers</u>: Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,231'	
Birds Nest	1,592'	Water
Mahogany	1,950'	Water
Wasatch	4,470'	Gas
Mesaverde	6,966'	Gas
Sego	9,156'	Gas
Castlegate	9,202'	Gas
Blackhawk	9,655'	Gas
TVD =	10,255'	
TD =	10,295'	

2.c Kerr McGee Oil & Gas Onshore LP (Kerr McGee) may elect to drill to (i) the Blackhawk formation (part of the Mesaverde Group), (ii) to a shallower depth within the Mesaverde Group, or (iii) to the Wasatch Formation. If Kerr McGee drills to the Blackhawk formation, please refer to Blackhawk as the bottom formation. The attached Blackhawk Drilling Program includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the deeper formation.

If Kerr-McGee drills to a shallower depth in the Mesaverde Group or to the Wasatch Formation, please refer to the attached Wasatch/Mesaverde Drilling Program which includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the shallower formations.

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

NBU 922-33E Pad Drilling Program 2 of 7

4. <u>Proposed Casing & Cementing Program:</u>

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

5. <u>Drilling Fluids Program:</u>

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

Evaluation Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

7. Abnormal Conditions:

7.a Blackhawk (Part of Mesaverde Group)

Maximum anticipated bottom hole pressure calculated at 10255' TVD, approximately equals 6,563 psi (0.64 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 4,293 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

7.b Wasach Formation/Mesaverde Group

Maximum anticipated bottom hole pressure calculated at 9156' TVD, approximately equals 5,585 psi (0.61 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,595 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. <u>Anticipated Starting Dates:</u>

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

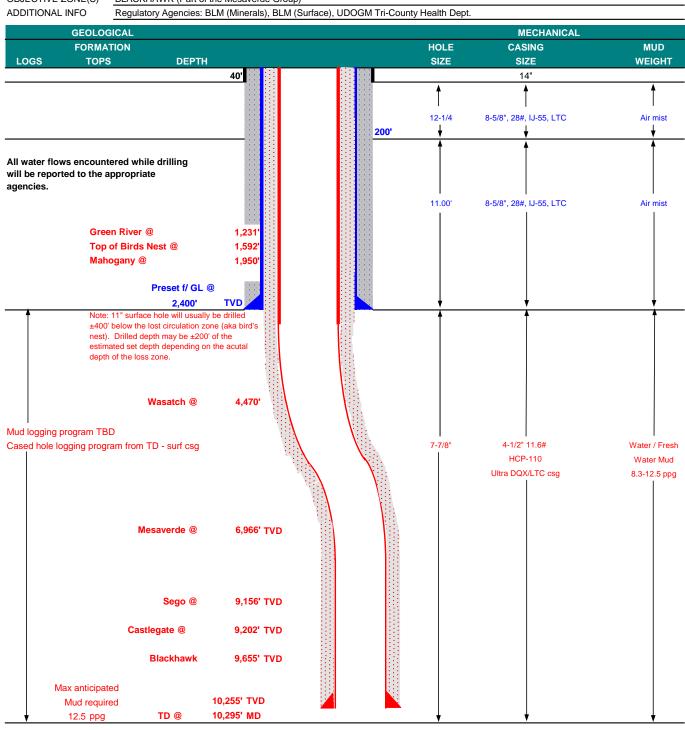
10. Other Information:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program



KERR-McGEE OIL & GAS ONSHORE LP Blackhawk Drilling Program

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP					DATE	Novembe	r 7, 2012		
WELL NAME NB	J 922-33D4B	S			TD	10,255'	TVD	10,295' MD	
FIELD Natural Buttes COUNTY Uintah STATE U					1	FINIS	HED ELEVATION _	4,945'	
SURFACE LOCATION	NWNW	1309 FNL	987 FWL	Sec 33	T 9S	R 22E			
	Latitude:	39.996200	Longitude:	-109.450	901		NAD 83		
BTM HOLE LOCATION	NWNW	1001 FNL	1260 FWL	Sec 33	T 9S	R 22E			
	Latitude:	39.997045	Longitude:	-109.449	9926		NAD 83		
OBJECTIVE ZONE(S)	BLACKHAWK	Part of the Mesa	averde Group)				_		
ADDITIONAL INFO	Regulatory Age	ncies: BLM (Min	erals), BLM (Sur	face), UDO	GM Tri-C	ounty Health D	ept.		



Drilling Program 4 of 7



CACING DDOCDAM

KERR-McGEE OIL & GAS ONSHORE LP **Blackhawk Drilling Program**

CASING PROGRAM									DESIGN F	ACTURS	
										LTC	DQX
	SIZE	INT	ERVA	L	WT.	GR.	CPLG.	BURST	COLLAPSE	TE	NSION
CONDUCTOR	14"	C)-40'								
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,400	28.00	IJ-55	LTC	2.24	1.67	5.91	N/A
								10,690	8,650	279,000	367,174
PRODUCTION	4-1/2"	0	to	5,000	11.60	HCP-110	DQX	1.19	1.30		3.80
	4-1/2"	5,000	to	10,295'	11.60	HCP-110	LTC	1.19	1.30	5.61	

Surface Casing:

0.73 psi/ft = frac gradient @ surface shoe 12.5 (Burst Assumptions: TD =

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

0.64 psi/ft = bottomhole gradient (Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi)

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1			+ 0.25 pps flocele				
TOP OUT	ΓCMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE			NOTE: If well will circulate water to	surface, opt	ion 2 will be	utilized	•
Option 2	LEAD	1,900'	Premium cmt + 16% Gel + 10 pps gilsonite	230	35%	12.00	2.86
			+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
Т	OP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	3,965'	Premium Lite II +0.25 pps	310	35%	12.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	6,330'	50/50 Poz/G + 10% salt + 2% gel	1,490	35%	14.30	1.31
			+ 0.1% R-3				

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

PRODUCTION

Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well.

centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

	IF extreme mud losses are observed	d OR cement doesn't reach surface on a well on the pad, a DV Tool may	be used. With Cement B	askets above and Below it.	
DRILLING	ENGINEER:		DATE:		
		Nick Spence / Danny Showers / Travis Hansell			
DRILLING	SUPERINTENDENT:		DATE:		
		Kenny Gathings / Lovel Young			

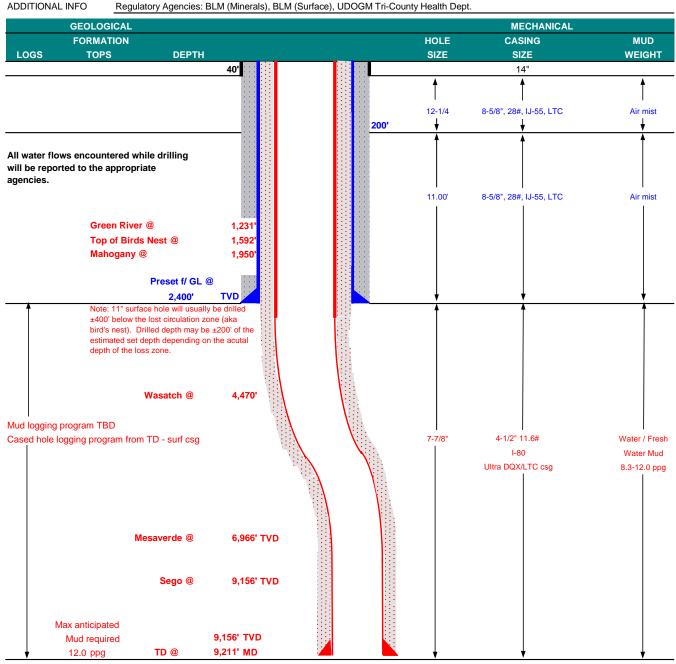
NBU 922-33D Pad- Drilling Program Approved by Drilling- 110712.xlsx

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained



KERR-McGEE OIL & GAS ONSHORE LP Wasatch/Mesaverde Drilling Program

COMPANY NAME KER	R-McGEE OIL 8	GAS ONSHOR	RE LP		DATE	November	r 7, 2012	
WELL NAME NB	J 922-33D4E	3S			TD	9,156'	TVD	9,211' MD
FIELD Natural Butte	S	COUNTY	Uintah S	TATE Uta	h	FINIS	HED ELEVATION	4,945'
SURFACE LOCATION	NWNW	1309 FNL	987 FWL	Sec 33	T 9S	R 22E		
	Latitude:	39.996200	Longitude:	-109.45	0901		NAD 83	
BTM HOLE LOCATION	NWNW	1001 FNL	1260 FWL	Sec 33	T 9S	R 22E		
	Latitude:	39.997045	Longitude:	-109.44	9926		NAD 83	
OBJECTIVE ZONE(S) Wasatch Formation/Mesaverde Group								
ADDITIONAL INFO	Regulatory Ag	encies: BLM (Mi	nerals), BLM (S	urface), UD	OGM Tri-0	County Health [Dept.	





KERR-McGEE OIL & GAS ONSHORE LP Wasatch/Mesaverde Drilling Program

CASING PROGRA	<u>M</u>								DESIGN F	ACTORS	
										LTC	DQX
	SIZE	INT	ERVA	L	WT.	GR.	CPLG.	BURST	COLLAPSE	TE	NSION
CONDUCTOR	14"	C)-40'								
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,400	28.00	IJ-55	LTC	2.24	1.67	5.91	N/A
								7,780	6,350		267,035
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	1.11		3.06
								7,780	6,350	223,000	
	4-1/2"	5.000	to	9.211'	11.60	I-80	LTC	1.11	1.11	5.59	

Surface Casing:

(Burst Assumptions: TD = 12.0 ppg)

0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1		+ 0.25 pps flocele				
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
		+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to	surface, opti	on 2 will be	utilized	•
Option 2 LEAD	1,900'	Premium cmt + 16% Gel + 10 pps gilsonite	230	35%	12.00	2.86
		+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps				
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
		+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps				
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION LEAD	3,961'	Premium Lite II +0.25 pps	310	35%	12.00	3.38
		celloflake + 5 pps gilsonite + 10% gel				
		+ 0.5% extender				
TAIL	5,250'	50/50 Poz/G + 10% salt + 2% gel	1,240	35%	14.30	1.31
		+ 0.1% R-3				

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

PRODUCTION

Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

IF extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

DRILLING ENGINEER:

Nick Spence / Danny Showers / Travis Hansell

DRILLING SUPERINTENDENT:

NBU 922-33D Pad- Drilling Program Approved by Drilling- 110712.xlsx

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

Drilling Program 7 of 7

Kenny Gathings / Lovel Young

Sundry Number: 60889 APP djedve UTAHN UTIM (teet), 41AD247 Zon 5 12N 000

Vertical Section at 41.53° (1500 ft/in)

Scientific Drilling

Site: NBU 922-33D PAD Well: NBU 922-33D4BS

Wellbore: OH

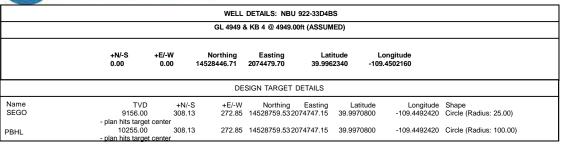
Design: PLAN #1 PRELIMINARY

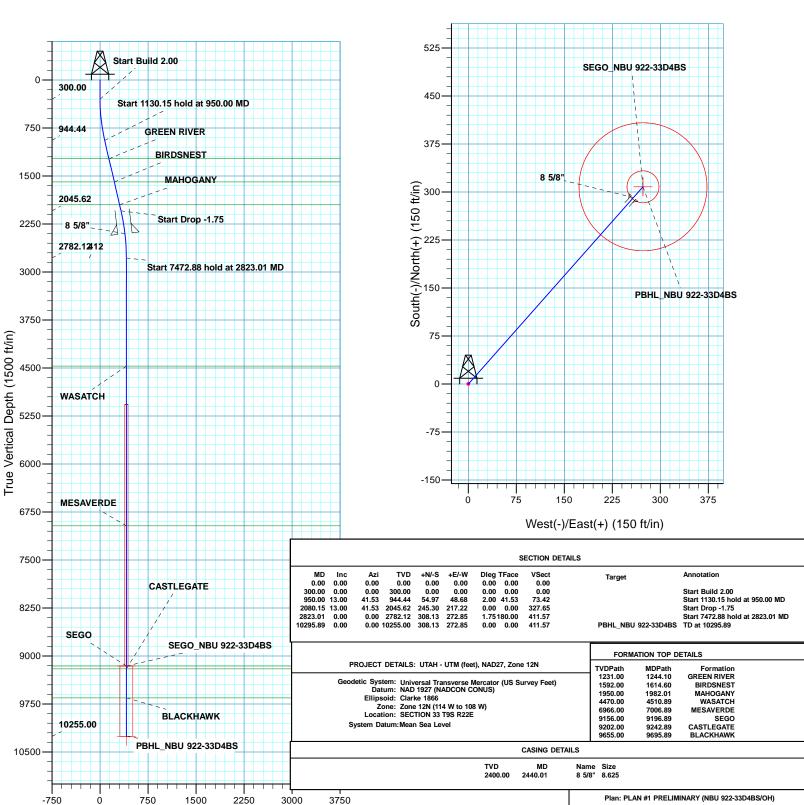




Azimuths to True North Magnetic North: 10.87°

Magnetic Field Strength: 52195.3snT Dip Angle: 65.84° Date: 11/6/2012 Model: IGRF2010





Created By: RobertScott Date: 9:37, December 31 2014



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N NBU 922-33D PAD NBU 922-33D4BS

ОН

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

31 December, 2014





Planning Report



Denver Sales Database:

US ROCKIES REGION PLANNING Company:

Project: UTAH - UTM (feet), NAD27, Zone 12N Site: NBU 922-33D PAD Well: NBU 922-33D4BS

Wellbore: ОН

Design: PLAN #1 PRELIMINARY Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well NBU 922-33D4BS

GL 4949 & KB 4 @ 4949.00ft (ASSUMED) GL 4949 & KB 4 @ 4949.00ft (ASSUMED)

Minimum Curvature

UTAH - UTM (feet), NAD27, Zone 12N **Project**

Map System: Universal Transverse Mercator (US Survey Feet)

NAD 1927 (NADCON CONUS) Geo Datum: Zone 12N (114 W to 108 W) Map Zone:

System Datum:

Mean Sea Level

Site NBU 922-33D PAD, SECTION 33 T9S R22E

Northing: 14,528,452.32 usft Site Position: 39.9962490 Latitude: From: Lat/Long Easting: 2,074,488.01 usft Longitude: -109.4501860 **Position Uncertainty:** 0.00 ft Slot Radius: 13.200 in **Grid Convergence:** 1.00 '

Well NBU 922-33D4BS, 1309 FNL 987 FWL

Well Position +N/-S -5.46 ft Northing: 14,528,446.71 usft Latitude: 39.9962340 +E/-W -8.40 ft Easting: 2,074,479.70 usft Longitude: -109.4502160

0.00 ft Wellhead Elevation: Ground Level: 4,945.00 ft **Position Uncertainty**

ОН Wellbore Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) IGRF2010 11/6/2012 10.87 65.84 52,195

PLAN #1 PRELIMINARY Design Audit Notes: PLAN 0.00 Version: Phase: Tie On Depth: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 41.53

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
950.00	13.00	41.53	944.44	54.97	48.68	2.00	2.00	0.00	41.53	
2,080.15	13.00	41.53	2,045.62	245.30	217.22	0.00	0.00	0.00	0.00	
2,823.01	0.00	0.00	2,782.12	308.13	272.85	1.75	-1.75	0.00	180.00	
10,295.89	0.00	0.00	10,255.00	308.13	272.85	0.00	0.00	0.00	0.00 PI	3HL_NBU 922-33D

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Planning Report



Database: Denver Sales

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

Site: NBU 922-33D PAD

Well: NBU 922-33D4BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 922-33D4BS

GL 4949 & KB 4 @ 4949.00ft (ASSUMED) GL 4949 & KB 4 @ 4949.00ft (ASSUMED)

True

Minimum Curvature

lanned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00 100.00 200.00 300.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 100.00 200.00 300.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Start Build 2		0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	2.00	41.53	399.98	1.31	1.16	1.75	2.00	2.00	0.00
500.00 600.00 700.00 800.00 900.00	4.00 6.00 8.00 10.00 12.00	41.53 41.53 41.53 41.53 41.53	499.84 599.45 698.70 797.47 895.62	5.22 11.75 20.87 32.58 46.87	4.63 10.40 18.48 28.85 41.50	6.98 15.69 27.88 43.52 62.60	2.00 2.00 2.00 2.00 2.00	2.00 2.00 2.00 2.00 2.00	0.00 0.00 0.00 0.00 0.00
950.00	13.00	41.53	944.44	54.97	48.68	73.42	2.00	2.00	0.00
	5 hold at 950.00		011.11	01.07	10.00	70.12	2.00	2.00	0.00
1,000.00 1,100.00 1,200.00 1,244.10	13.00 13.00 13.00 13.00	41.53 41.53 41.53 41.53	993.16 1,090.59 1,188.03 1,231.00	63.39 80.23 97.07 104.50	56.13 71.05 85.96 92.54	84.67 107.17 129.66 139.58	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
GREEN RIVI	ER								
1,300.00 1,400.00 1,500.00 1,600.00	13.00 13.00 13.00 13.00	41.53 41.53 41.53 41.53	1,285.47 1,382.90 1,480.34 1,577.78	113.91 130.76 147.60 164.44	100.87 115.79 130.70 145.61	152.16 174.65 197.15 219.64	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
1,614.60	13.00	41.53	1,592.00	166.90	147.79	222.93	0.00	0.00	0.00
BIRDSNEST									
1,700.00 1,800.00 1,900.00 1,982.01	13.00 13.00 13.00 13.00	41.53 41.53 41.53 41.53	1,675.21 1,772.65 1,870.09 1,950.00	181.28 198.12 214.96 228.77	160.53 175.44 190.35 202.58	242.14 264.63 287.13 305.58	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
MAHOGANY	,								
2,000.00	13.00	41.53	1,967.53	231.80	205.26	309.62	0.00	0.00	0.00
2,080.15	13.00	41.53	2,045.62	245.30	217.22	327.65	0.00	0.00	0.00
2,100.00 2,200.00 2,300.00 2,400.00	12.65 10.90 9.15 7.40	41.53 41.53 41.53 41.53	2,064.98 2,162.87 2,261.34 2,360.29	248.60 263.88 276.92 287.70	220.14 233.67 245.21 254.76	332.06 352.47 369.88 384.28	1.75 1.75 1.75 1.75	-1.75 -1.75 -1.75 -1.75	0.00 0.00 0.00 0.00
2,440.01	6.70	41.53	2,400.00	291.37	258.01	389.19	1.75	-1.75	0.00
8 5/8" 2,500.00 2,600.00 2,700.00 2,800.00	5.65 3.90 2.15 0.40	41.53 41.53 41.53 41.53	2,459.64 2,559.29 2,659.14 2,759.11	296.21 302.44 306.40 308.06	262.29 267.81 271.32 272.79	395.65 403.97 409.26 411.49	1.75 1.75 1.75 1.75	-1.75 -1.75 -1.75 -1.75	0.00 0.00 0.00 0.00
2,823.01	0.00	0.00	2,782.12	308.13	272.85	411.57	1.75	-1.75	0.00
Start 7472.8	8 hold at 2823.01	1 MD							
2,900.00	0.00	0.00	2,859.11	308.13	272.85	411.57	0.00	0.00	0.00
3,000.00 3,100.00 3,200.00	0.00 0.00 0.00	0.00 0.00 0.00	2,959.11 3,059.11 3,159.11	308.13 308.13 308.13	272.85 272.85 272.85	411.57 411.57 411.57	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
3,300.00 3,400.00 3,500.00 3,600.00 3,700.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	3,259.11 3,359.11 3,459.11 3,559.11 3,659.11	308.13 308.13 308.13 308.13 308.13	272.85 272.85 272.85 272.85 272.85	411.57 411.57 411.57 411.57 411.57	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00



Planning Report



Database: Denver Sales

Company: US ROCKIES REGION PLANNING

Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-33D PAD

 Well:
 NBU 922-33D4BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 922-33D4BS

GL 4949 & KB 4 @ 4949.00ft (ASSUMED) GL 4949 & KB 4 @ 4949.00ft (ASSUMED)

True

Minimum Curvature

Design:	PLAN #1 PRE	LIMINARY							
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,800.00	0.00	0.00	3,759.11	308.13	272.85	411.57	0.00	0.00	0.00
3,900.00	0.00	0.00	3,859.11	308.13	272.85	411.57	0.00	0.00	0.00
4,000.00	0.00	0.00	3,959.11	308.13	272.85	411.57	0.00	0.00	0.00
4,100.00	0.00	0.00	4,059.11	308.13	272.85	411.57	0.00	0.00	0.00
4,200.00	0.00	0.00	4,159.11	308.13	272.85	411.57	0.00	0.00	0.00
4,300.00	0.00	0.00	4,259.11	308.13	272.85	411.57	0.00	0.00	0.00
4,400.00	0.00	0.00	4,359.11	308.13	272.85	411.57	0.00	0.00	0.00
4,500.00	0.00	0.00	4,459.11	308.13	272.85	411.57	0.00	0.00	0.00
4,510.89	0.00	0.00	4,470.00	308.13	272.85	411.57	0.00	0.00	0.00
	0.00	0.00	4,470.00	300.13	272.00	411.57	0.00	0.00	0.00
WASATCH	0.00	0.00	4 550 44	200.42	070.05	444.57	0.00	0.00	0.00
4,600.00	0.00	0.00	4,559.11	308.13	272.85	411.57	0.00	0.00	0.00
4,700.00	0.00	0.00	4,659.11	308.13	272.85	411.57	0.00	0.00	0.00
4,800.00	0.00	0.00	4,759.11	308.13	272.85	411.57	0.00	0.00	0.00
4,900.00	0.00	0.00	4,859.11	308.13	272.85	411.57	0.00	0.00	0.00
5,000.00	0.00	0.00	4,959.11	308.13	272.85	411.57	0.00	0.00	0.00
5,100.00	0.00	0.00	5,059.11	308.13	272.85	411.57	0.00	0.00	0.00
5,200.00	0.00	0.00	5,159.11	308.13	272.85	411.57	0.00	0.00	0.00
	0.00		5,159.11	308.13	272.85	411.57	0.00	0.00	0.00
5,300.00	0.00	0.00 0.00	5,259.11		272.85	411.57		0.00	0.00
5,400.00	0.00		5,359.11 5,459.11	308.13	272.85	411.57	0.00		
5,500.00 5,600.00	0.00	0.00 0.00	5,459.11	308.13 308.13	272.85	411.57	0.00 0.00	0.00 0.00	0.00 0.00
5,000.00	0.00	0.00	5,559.11	300.13	272.00	411.57	0.00	0.00	0.00
5,700.00	0.00	0.00	5,659.11	308.13	272.85	411.57	0.00	0.00	0.00
5,800.00	0.00	0.00	5,759.11	308.13	272.85	411.57	0.00	0.00	0.00
5,900.00	0.00	0.00	5,859.11	308.13	272.85	411.57	0.00	0.00	0.00
6,000.00	0.00	0.00	5,959.11	308.13	272.85	411.57	0.00	0.00	0.00
6,100.00	0.00	0.00	6,059.11	308.13	272.85	411.57	0.00	0.00	0.00
6,200.00	0.00	0.00	6,159.11	308.13	272.85	411.57	0.00	0.00	0.00
6,300.00	0.00	0.00	6,259.11	308.13	272.85	411.57	0.00	0.00	0.00
6,400.00	0.00	0.00	6,359.11	308.13	272.85	411.57	0.00	0.00	0.00
6,500.00	0.00	0.00	6,459.11	308.13	272.85	411.57	0.00	0.00	0.00
6,600.00	0.00	0.00	6,559.11	308.13	272.85	411.57	0.00	0.00	0.00
6,700.00	0.00	0.00	6,659.11	308.13	272.85	411.57	0.00	0.00	0.00
6,800.00	0.00 0.00	0.00	6,759.11 6,859.11	308.13	272.85 272.85	411.57 411.57	0.00	0.00 0.00	0.00
6,900.00 7,000.00	0.00	0.00 0.00	6,859.11	308.13 308.13	272.85 272.85	411.57 411.57	0.00 0.00	0.00	0.00 0.00
7,000.00 7,006.89	0.00	0.00	6,959.11	308.13	272.85 272.85	411.57 411.57	0.00	0.00	0.00
		0.00	0,300.00	500.15	212.03	711.57	0.00	0.00	0.00
MESAVERDE									
7,100.00	0.00	0.00	7,059.11	308.13	272.85	411.57	0.00	0.00	0.00
7,200.00	0.00	0.00	7,159.11	308.13	272.85	411.57	0.00	0.00	0.00
7,300.00	0.00	0.00	7,259.11	308.13	272.85	411.57	0.00	0.00	0.00
7,400.00	0.00	0.00	7,359.11	308.13	272.85	411.57	0.00	0.00	0.00
7,500.00	0.00	0.00	7,459.11	308.13	272.85	411.57	0.00	0.00	0.00
7,600.00	0.00	0.00	7,559.11	308.13	272.85	411.57	0.00	0.00	0.00
7,700.00	0.00	0.00	7,659.11	308.13	272.85	411.57	0.00	0.00	0.00
7,800.00	0.00	0.00	7,759.11	308.13	272.85	411.57	0.00	0.00	0.00
7,900.00	0.00	0.00	7,859.11	308.13	272.85	411.57	0.00	0.00	0.00
8,000.00	0.00	0.00	7,959.11	308.13	272.85	411.57	0.00	0.00	0.00
8,100.00	0.00	0.00	8,059.11	308.13	272.85	411.57	0.00	0.00	0.00
8,200.00	0.00	0.00	8,159.11	308.13	272.85	411.57	0.00	0.00	0.00
8,300.00	0.00	0.00	8,259.11	308.13	272.85	411.57	0.00	0.00	0.00
8,400.00	0.00	0.00	8,359.11	308.13	272.85	411.57	0.00	0.00	0.00
8,500.00	0.00	0.00	8,459.11	308.13	272.85	411.57	0.00	0.00	0.00
8,600.00	0.00	0.00	8,559.11	308.13	272.85	411.57	0.00	0.00	0.00
8,700.00	0.00	0.00	8,659.11	308.13	272.85	411.57	0.00	0.00	0.00



Planning Report



Database: Company: Denver Sales

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

Project: Site: NBU 922-33D PAD NBU 922-33D4BS

ОН

Well: Wellbore:

Design: PLAN #1 PRELIMINARY Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well NBU 922-33D4BS

GL 4949 & KB 4 @ 4949.00ft (ASSUMED) GL 4949 & KB 4 @ 4949.00ft (ASSUMED)

Minimum Curvature

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,800.00 8,900.00 9,000.00	0.00 0.00 0.00	0.00 0.00 0.00	8,759.11 8,859.11 8,959.11	308.13 308.13 308.13	272.85 272.85 272.85	411.57 411.57 411.57	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
9,100.00 9,196.89	0.00 0.00	0.00 0.00	9,059.11 9,156.00	308.13 308.13	272.85 272.85	411.57 411.57	0.00 0.00	0.00 0.00	0.00 0.00
SEGO - SEG	O_NBU 922-33D	4BS							
9,200.00 9,242.89	0.00 0.00	0.00 0.00	9,159.11 9,202.00	308.13 308.13	272.85 272.85	411.57 411.57	0.00 0.00	0.00 0.00	0.00 0.00
CASTLEGAT	E								
9,300.00	0.00	0.00	9,259.11	308.13	272.85	411.57	0.00	0.00	0.00
9,400.00 9,500.00 9,600.00 9,695.89	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	9,359.11 9,459.11 9,559.11 9,655.00	308.13 308.13 308.13 308.13	272.85 272.85 272.85 272.85	411.57 411.57 411.57 411.57	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
BLACKHAWI	<								
9,700.00	0.00	0.00	9,659.11	308.13	272.85	411.57	0.00	0.00	0.00
9,800.00 9,900.00 10,000.00 10,100.00 10,200.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	9,759.11 9,859.11 9,959.11 10,059.11 10,159.11	308.13 308.13 308.13 308.13 308.13	272.85 272.85 272.85 272.85 272.85	411.57 411.57 411.57 411.57 411.57	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
10,295.89	0.00	0.00	10,255.00	308.13	272.85	411.57	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SEGO_NBU 922-33D4B - plan hits target cent - Circle (radius 25.00)		0.00	9,156.00	308.13	272.85	14,528,759.53	2,074,747.15	39.9970800	-109.4492420
PBHL_NBU 922-33D4B: - plan hits target cent - Circle (radius 100.00		0.00	10,255.00	308.13	272.85	14,528,759.53	2,074,747.15	39.9970800	-109.4492420

Casing Points					
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter
	(ft)	(ft)	Name	(in)	(in)
	2,440.01	2,400.00 8 5/8	•	8.625	11.000

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Planning Report



Database: Denver Sales

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 NBU 922-33D PAD

 Well:
 NBU 922-33D4BS

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well NBU 922-33D4BS

GL 4949 & KB 4 @ 4949.00ft (ASSUMED) GL 4949 & KB 4 @ 4949.00ft (ASSUMED)

True

Minimum Curvature

ormations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,244.10	1,231.00	GREEN RIVER				
	1,614.60	1,592.00	BIRDSNEST				
	1,982.01	1,950.00	MAHOGANY				
	4,510.89	4,470.00	WASATCH				
	7,006.89	6,966.00	MESAVERDE				
	9,196.89	9,156.00	SEGO				
	9,242.89	9,202.00	CASTLEGATE				
	9,695.89	9,655.00	BLACKHAWK				

Plan Annotation	ıs				
	Measured	Vertical	Local Coore		
	Depth (ft)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
	300.00	300.00	0.00	0.00	Start Build 2.00
	950.00	944.44	54.97	48.68	Start 1130.15 hold at 950.00 MD
	2,080.15	2,045.62	245.30	217.22	Start Drop -1.75
	2,823.01	2,782.12	308.13	272.85	Start 7472.88 hold at 2823.01 MD
	10,295.89	10,255.00	308.13	272.85	TD at 10295.89

12/31/2014 9:28:57AM Page 6 COMPASS 5000.1 Build 74

NBU 922-33C1CS/ 922-33D1CS/ 922-33D3DS/ 922-33D4BS Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 1 of 9

Kerr-McGee Oil & Gas Onshore. L.P.

NBU 922-33D PAD

API #4304750509	NBU 922-33C1CS			
	Surface:	1303 FNL / 995 FWL	NWNW	Lot
	BHL:	552 FNL / 2129 FWL	NENW	Lot
API #4304750508		NBU 922-33D1CS		
	Surface:	1314 FNL / 978 FWL	NWNW	Lot
	BHL:	481 FNL / 811 FWL	NWNW	Lot
API #4304750507		NBU 922-33D3DS		
	Surface:	1319 FNL / 970 FWL	NWNW	Lot
	BHL:	1060 FNL / 469 FWL	NWNW	Lot
API #4304750510		NBU 922-33D4BS		
	Surface:	1309 FNL / 987 FWL	NWNW	Lot
	BHL:	1001 FNL / 1260 FWL	NWNW	Lot

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on August 16-17, 2012. Present were:

- · Dave Gordon, Tyler Cox, Aaron Roe and Brian Barnett BLM;
- Jessi Brunson USFWS;
- Bill Knapp ICF Consulting;
- Jacob Dunham 609 Consulting;
- · Mitch Batty Timberline Engineering & Land Surveying, Inc.; and
- Gina Becker, Charles Chase, Lindsey Frazier, Doyle Holmes, Randy Townley and Casey McKee- Kerr-McGee

A. Existing Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Topo B for existing roads.

NBU 922-33C1CS/ 922-33D1CS/ 922-33D3DS/ 922-33D4BS Kerr-McGee Oil Gas Onshore, L.P. Surface Use Plan of Operations 2 of 9

B. New or Reconstructed Access Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

No new access road is proposed. Please refer to Topo B.

NBU 922-33C1CS/ 922-33D1CS/ 922-33D3DS/ 922-33D4BS Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 3 of 9

C. Location of Existing Wells:

Please refer to Topo C for exiting wells.

D. Location of Existing and/or Proposed Facilities:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

This pad will expand the existing pad for the NBU 922-33D, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on November 1, 2012. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

GAS GATHERING

Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.

The total gas gathering pipeline distance from the meter to the tie in point is $\pm 1,690$ ' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±310' (0.06 miles) Section 33 T9S R22E (NW/4 NW/4) On-lease UTU-01191-A, BLM surface, New 6" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- ±1,185' (0.2 miles) Section 33 T9S R22E (NW/4 NW/4) On-lease UTU-01191-A, BLM surface, New 6" buried gas gathering pipeline from the edge of the pad to the NBU 922-33E Pad pipeline intersection. Please refer to Exhibit A Gas Gathering- Line 17 and 16.
 - ±195' (0.04 miles) Section 33 T9S R22E (SW/4 NW/4) On-lease UTU-01191-A, BLM surface, New 8" buried gas gathering pipeline from the NBU 922-33E Pad pipeline intersection to tie in to the existing 16" gas pipeline to the South. This pipeline will be used concurrently with the NBU 922-33E Pad. Please refer to Exhibit A Gas Gathering- Line 14.

LIQUID GATHERING

Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 1,690$ ' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±310' (0.06 miles) Section 33 T9S R22E (NW/4 NW/4) On-lease UTU-01191-A, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- ±1,185' (0.2 miles) Section 33 T9S R22E (NW/4 NW/4) On-lease UTU-01191-A, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to the NBU 922-33E Pad pipeline intersection. Please refer to Exhibit B Liquid Gathering- Line 17 and Line 16.
 - ±195' (0.04 miles) Section 33 T9S R22E (SW/4 NW/4) On-lease UTU-01191-A, BLM surface, New 6"

NBU 922-33C1CS/ 922-33D1CS/ 922-33D3DS/ 922-33D4BS Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 4 of 9

buried liquid gathering pipeline from the NBU 922-33E Pad pipeline intersection to tie in to the existing 6" liquid pipeline to the South. This pipeline will be used concurrently with the NBU 922-33E Pad. Please refer to Exhibit B Liquid Gathering- Line 14.

NBU 922-33C1CS/ 922-33D1CS/ 922-33D3DS/ 922-33D4BS Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 5 of 9

Pipeline Gathering Construction

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

The Anadarko Completions Transportation System (ACTS) information:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Exhibit C for ACTS Lines

E. Location and Types of Water Supply:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

F. Construction Materials:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

G. Methods for Handling Waste:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Materials Management

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

J. Plans for Surface Reclamation:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Interim Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-33C1CS/ 922-33D1CS/ 922-33D3DS/ 922-33D4BS Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 6 of 9

Measures Common to Interim and Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-33C1CS/ 922-33D1CS/ 922-33D3DS/ 922-33D4BS Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 7 of 9

Weed Control

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Monitoring

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

K. Surface/Mineral Ownership:

United States of America Bureau of Land Management 170 South 500 East Vernal, UT 84078 (435)781-4400

L. Other Information:

Cultural and Paleontological Resources

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Resource Reports:

A Class I literature survey was completed on September 21, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC-12-264.

A paleontological reconnaissance survey was completed on August 28, 2012 by SWCA Environmental Consultants. For additional details please refer to report SWCA-UT12-14314-177.

Biological field survey was completed on August 25, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-833 and 841.

Proposed Action Annual Emissions Tables:

Please refer to the Appendix in the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

NBU 922-33C1CS/ 922-33D1CS/ 922-33D3DS/ 922-33D4BS Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 8 of 9

M. Lessee's or Operators' Representative & Certification:

Gina T. Becker Senior Regulatory Analyst Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6086 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

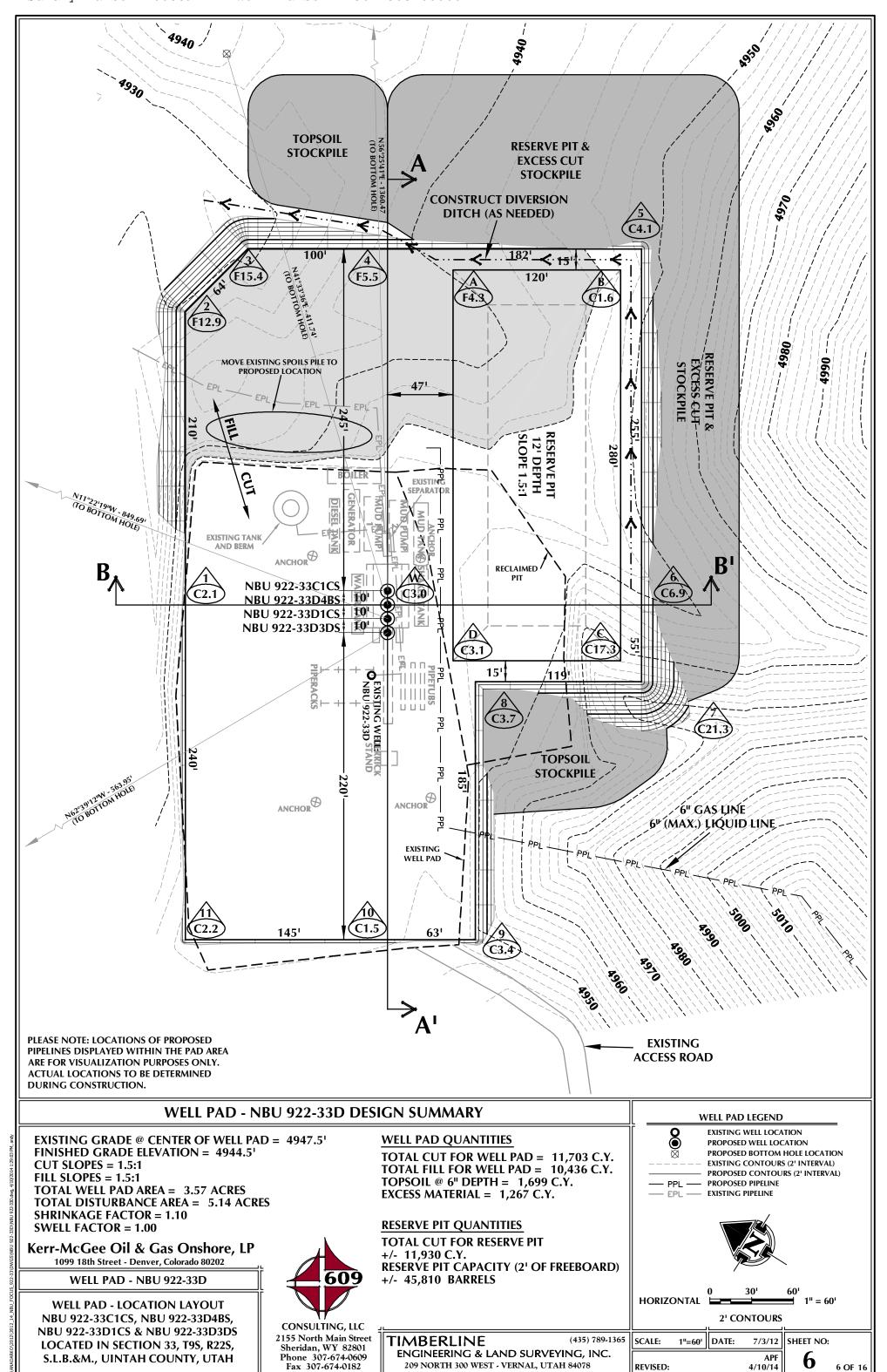
Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

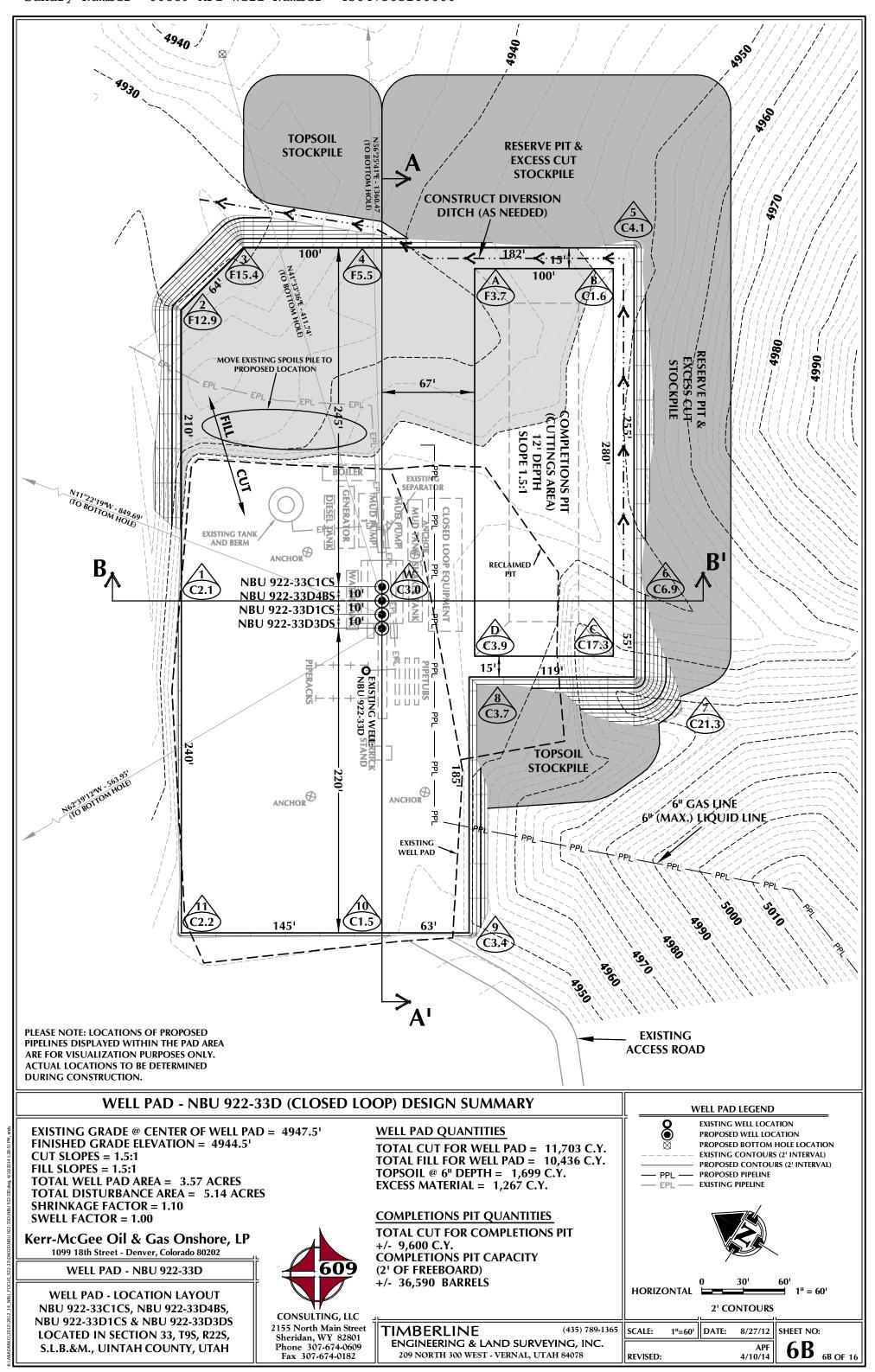
Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

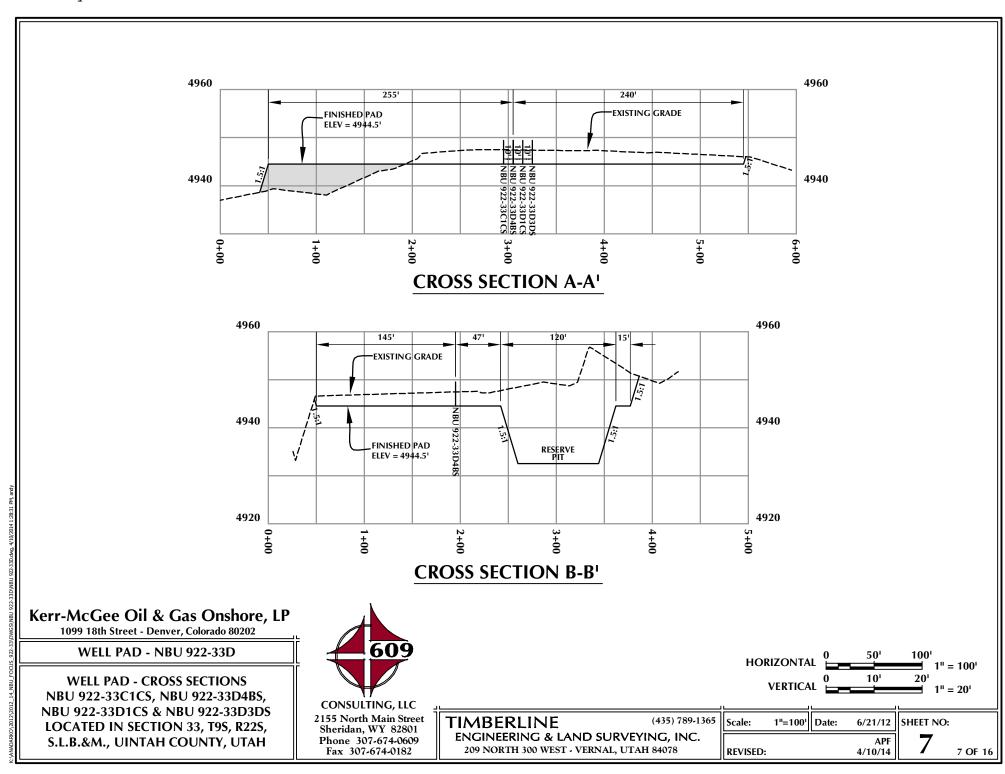
I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

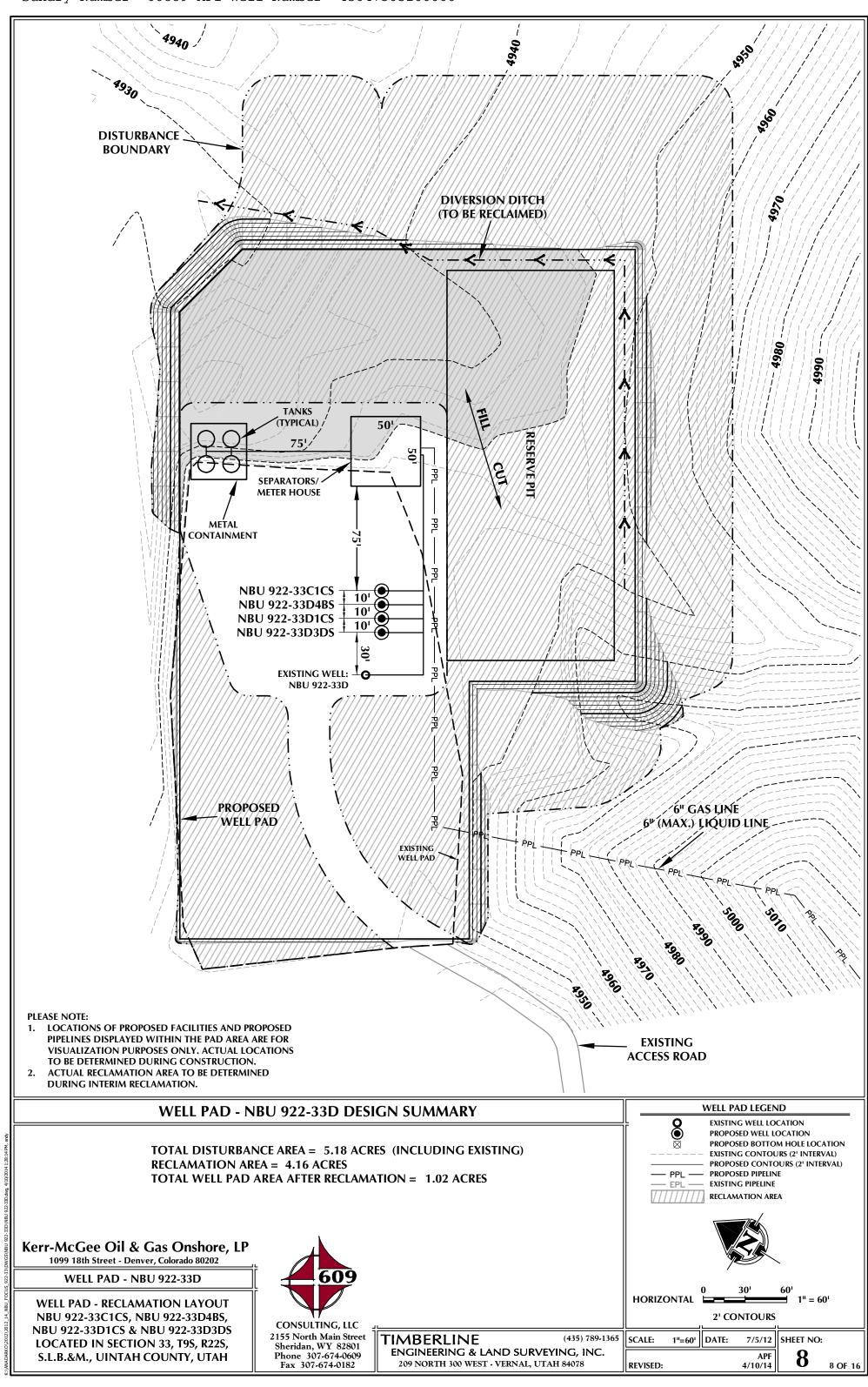
NBU 922-33C1CS/ 922-33D1CS/ 922-33D3DS/ 922-33D4BS Kerr-McGee Oil Gas Onshore, L.P.	Surface Use Plan of Operations 9 of 9
	November 5, 2012
Gina T.Becker	Date

			DEACE DOCUTION	NI .			er.	OTTOM HOLE		
WELL NAME	NAI		RFACE POSITIO NAC			NAE		NAD	027	
NEW	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
NBU 922-33C1CS	39°59'46.372" 39.996215°	109°27'03.133' 109.450870°	39°59'46.498" 39.996249°	109°27'00.670" 109.450186°	1303' FNL 995' FWL	39°59'53.803" 39.998279°	109°26'48.570" 109.446825°	39°59'53.929" 39.998314°	109°26'46.108' 109.446141°	552' FNL 2129' FWL
NBU	39°59'46.319"	109°27'03.242'	39°59'46.444"	109°27'00.779"	1309' FNL	39°59'49.362"	109°26'59.732"	39°59'49.487"	109°26'57.270'	1001' FNL
922-33D4BS NBU	39.996200° 39°59'46.266"	109.450901° 109°27'03.350'	39.996234° 39°59'46.392"	109.450216° 109°27'00.888"	987' FWL 1314' FNL	39.997045° 39°59'54.497"	109.449926° 109°27'05.501"	39.997080° 39°59'54.622"	109.449242° 109°27'03.038'	1260' FWL 481' FNL
922-33D1CS	39.996185°	109.450931°	39.996220°	109.450247°	978' FWL	39.998471°	109.451528°	39.998506°	109.450844°	811' FWL
NBU 922-33D3DS	39°59'46.214" 39.996171°	109°27'03.459' 109.450961°	39°59'46.339" 39.996205°	109°27'00.996" 109.450277°	1319' FNL 970' FWL	39°59'48.774" 39.996882°	109°27'09.893" 109.452748°	39°59'48.899" 39.996916°	109°27'07.430' 109.452064°	1060' FNL 469' FWL
NBU	39°59'46.150"	109°27'03.870'	39°59'46.275"	109°27'01.407"	1326' FNL	32.230002	1.05.752770	,,,,,,,,,,,	1.05.752007	1 100 1 111
922-33D	39.996153°	109.451075°	39.996188°	109.450391° COORDINATES -	938' FWL	Position to Dat	om Holo			
WELL NAME	NORTH	EAST WE		ORTH EAS				WELL NAM	E NORTH	EAST
NBU	752.31	1133.5 ¹ NB	- 1 3	08.1' 273.	1 NBU	833	.0' -167.5'	NBU	259.1	-500.9'
922-33C1CS		922	2-33D4BS		922-33	ייי ייי		922-33D3D	3	
S. G	OF THE NW 1/4 (L.B.&M. WHI L.L.B.&M. WHI ILOBAL POSIT OBSERVATION		3, T9S, R22E, FROM LLITE	95, 22.330 •	Az=346.02 Hole) (To Bottom Hole) (To Bottom - 849.69) (To Bottom - 849.69) (To Bottom Hole)	NAL 92		AZ 56. AZ 801 56° Z 5' AT I'E 1 56° Z 5' AT I'E 1	6°360.47' 3760! Trole	
1099 1	8th Street - De	& Gas Ons	80202		609	<u> </u>	MBERL	INE	(4	35) 789-1365
VVEL	L PAU - N	NDU 922-	วงบ					INE IG & LAND :	•	
WELL	PAD INTE	RFERENCE	PLAT					300 WEST - VER		
		ICS, NBU 92	ll.	CONS	JETING, LLO		E SURVEYED:	SURVEYED B	Y: A.F.	SHEET NO:
WEELS IN										
NBU 92		& NBU 922-3			rth Main Stre	II DAT	E DRAWN:	DD		
NBU 92 Locat	ED IN SECT	& NBU 922-3 Ion 33, t95 H County, I	, R22E,	Sherid	orth Main Stre an WY 82801 307-674-0609	DATI	E DRAWN:	DRAWN BY:	T.J.R.	5









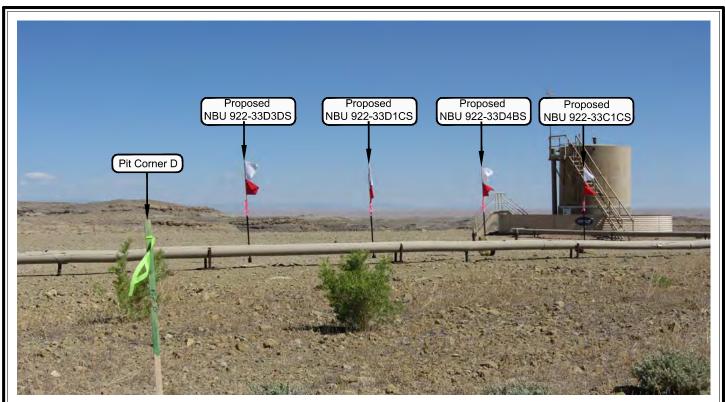


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: NORTHERLY

Kerr-McGee Oil & Gas Onshore, LP 1099 18th Street - Denver, Colorado 80202

WELL PAD - NBU 922-33D

LOCATION PHOTOS NBU 922-33C1CS, NBU 922-33D4BS NBU 922-33D1CS & NBU 922-33D3DS LOCATED IN SECTION 33, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.



CONSULTING, LLC 2155 North Main Street Sheridan WY 82801

Phone 307-674-0609 Fax 307-674-0182

TIMBERLINE

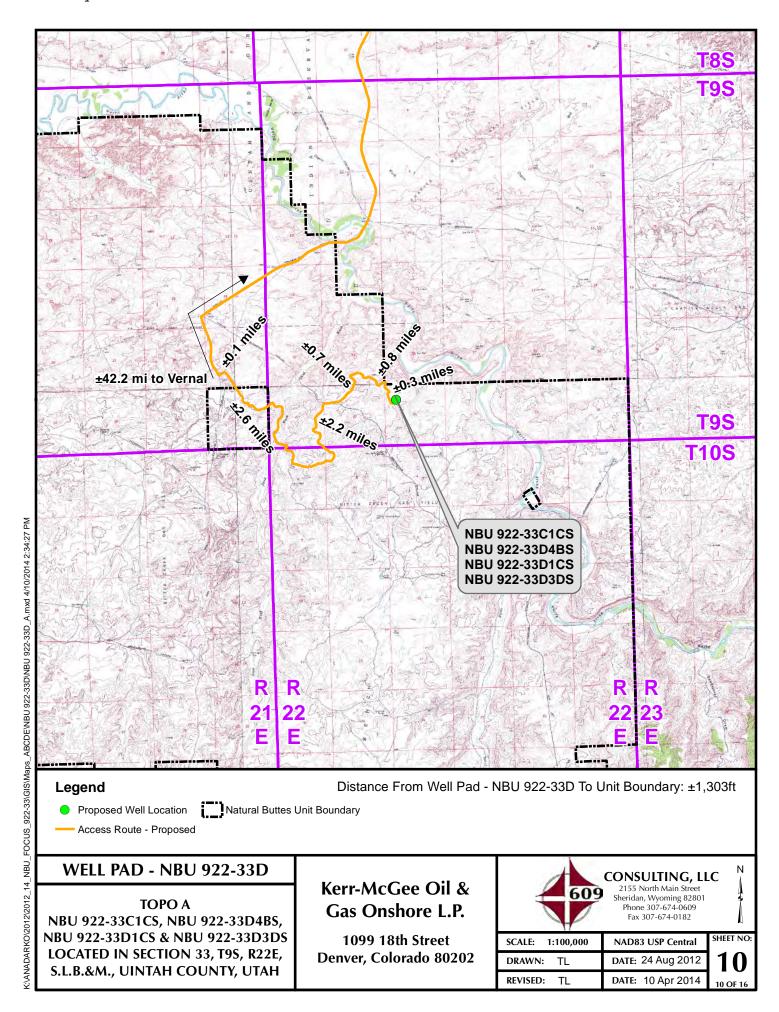
Date Last Revised: 4-8-14 J.G.C.

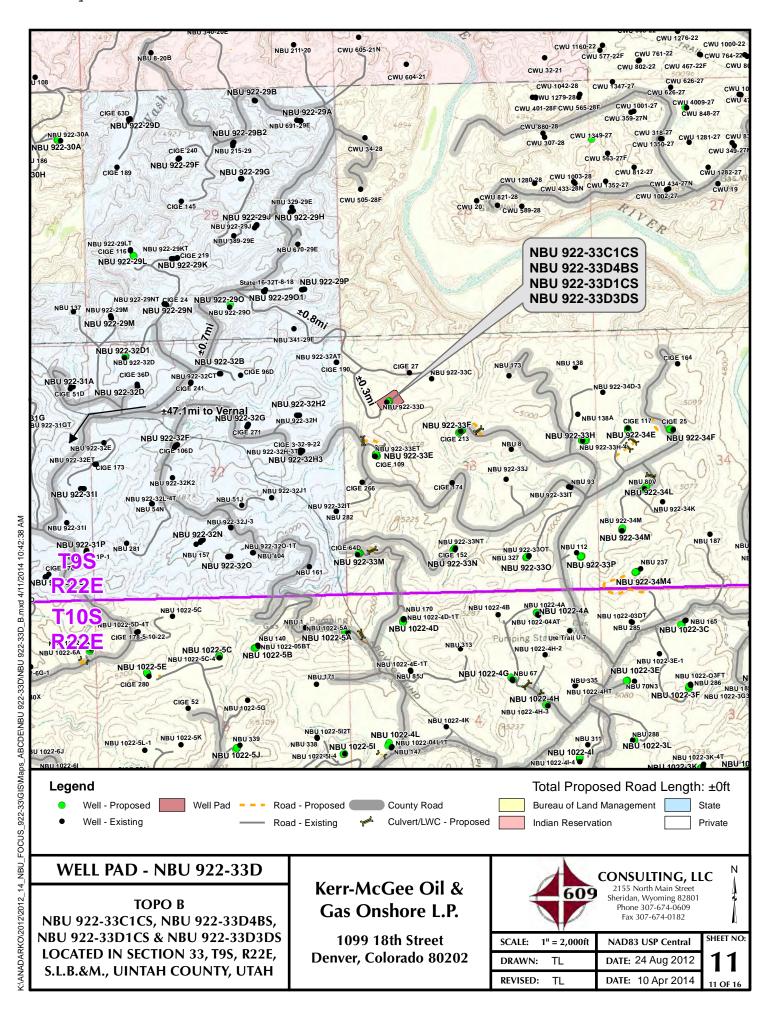
(435) 789-1365

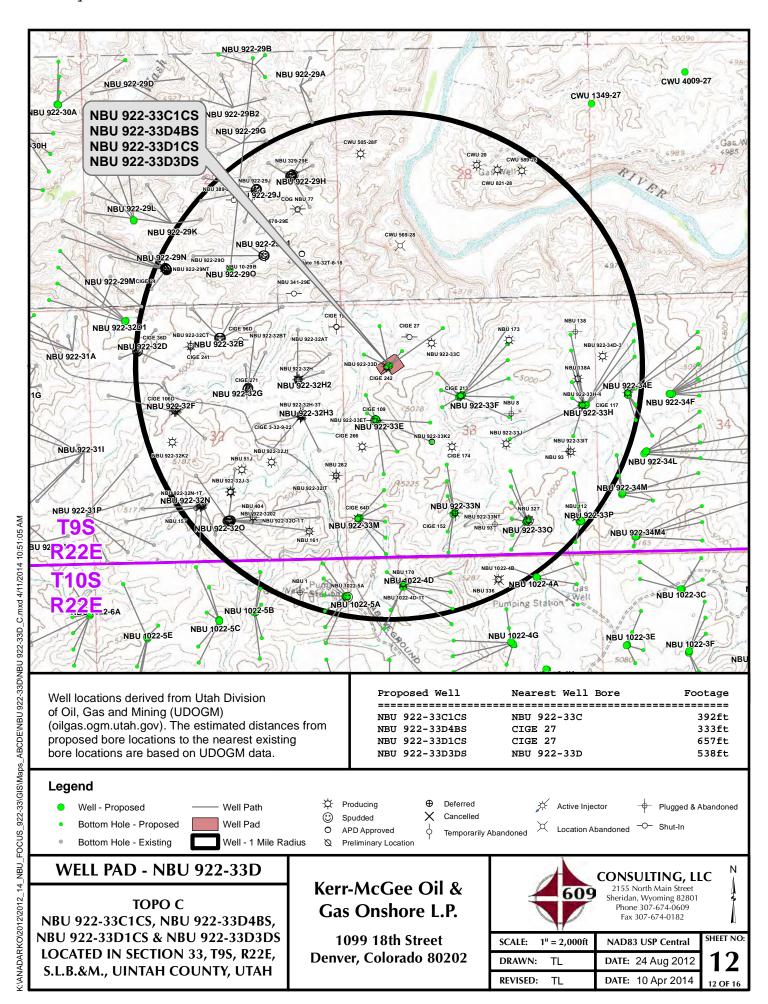
9 OF 16

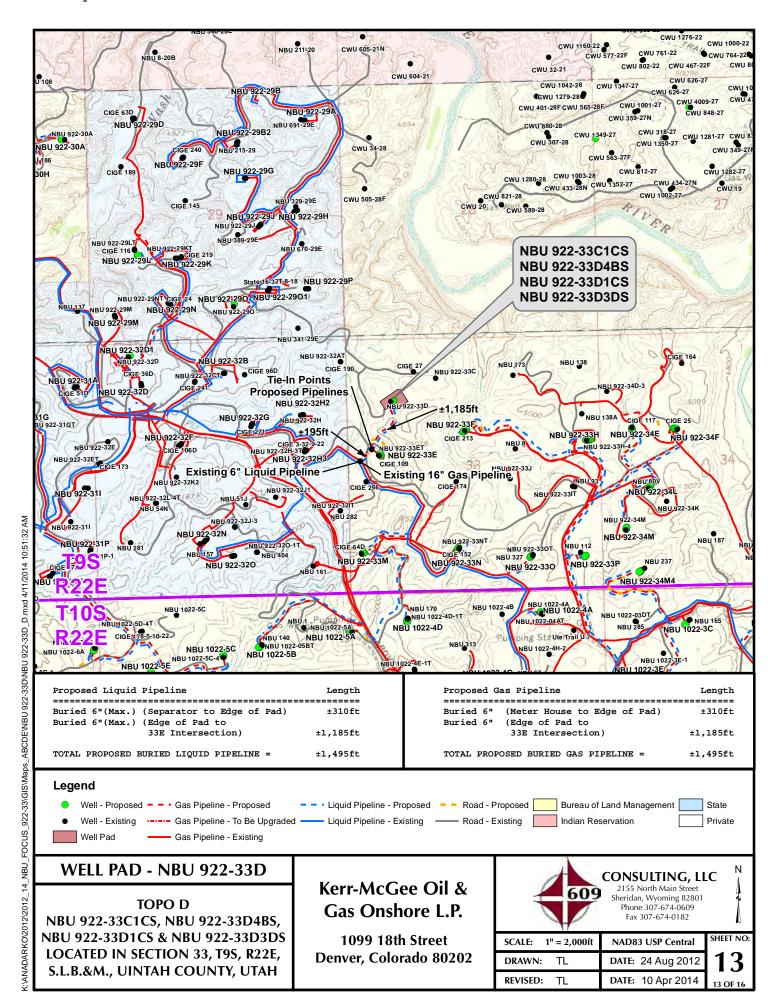
ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

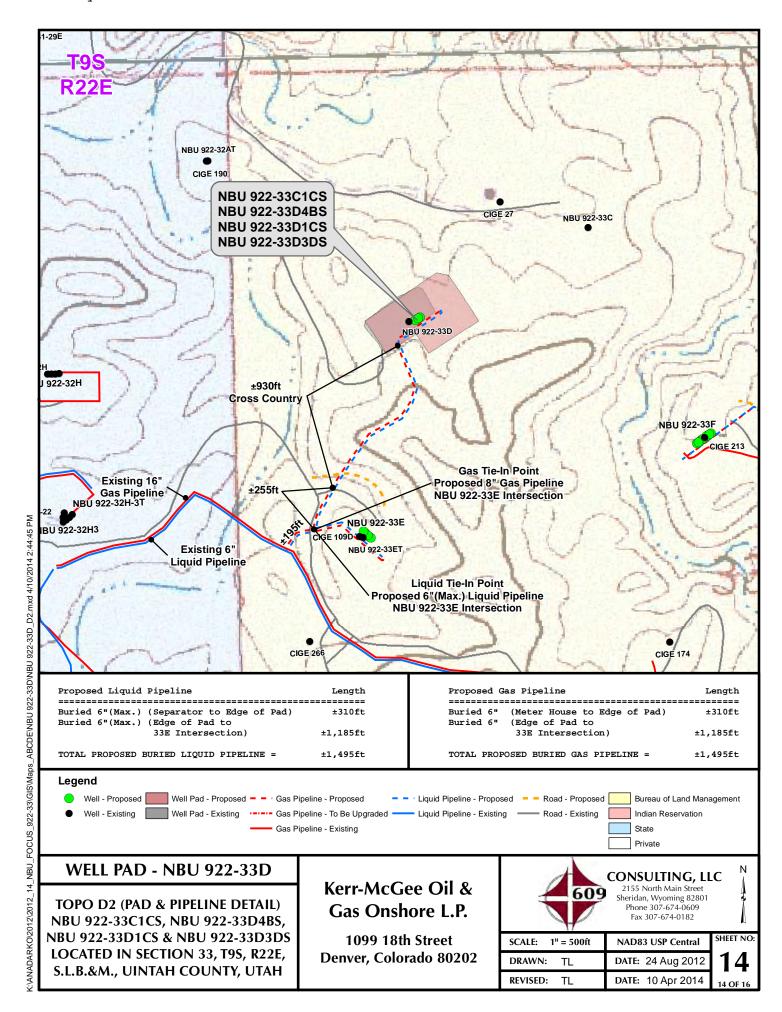
DATE PHOTOS TAKEN: 5-29-12	PHOTOS TAKEN BY: A.F.	sheet no
DATE DRAWN: 6-12-12	DRAWN BY: T.J.R.	9
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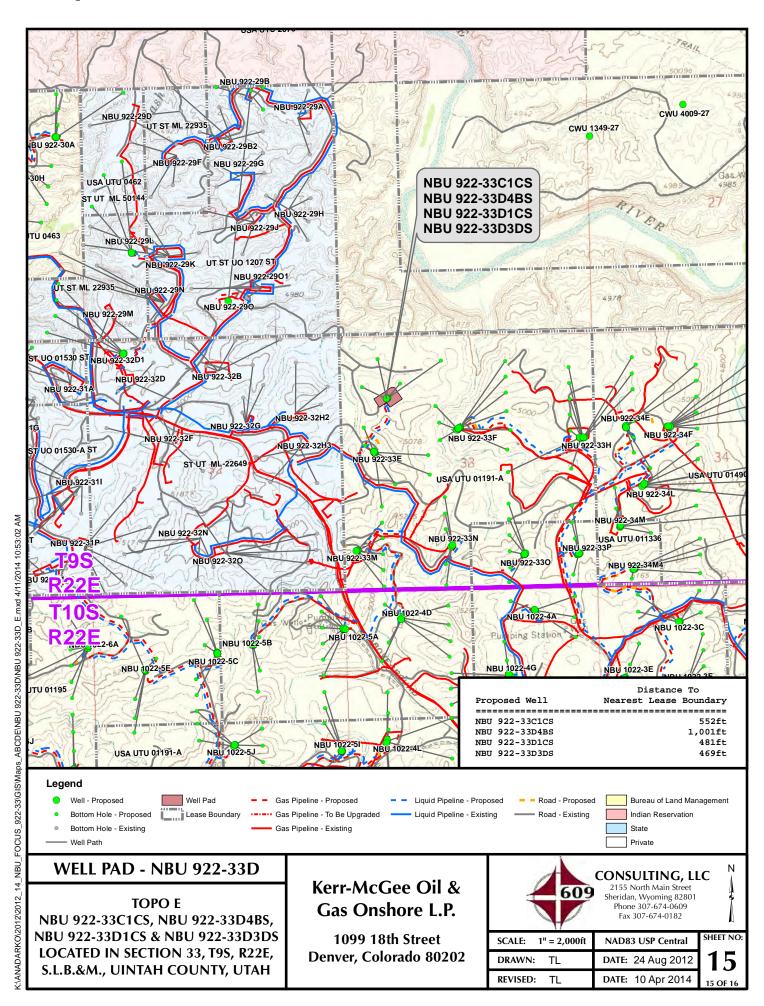












Form 3160-5 (August 2007)

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APR 0 2 2015

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter appearance of the proposals o

5. Lease Serial No. UTU01191A

abandoned we	is form for proposals to II. Use form 3160-3 (AP	D) for such p	proposab L	M	6. If Indian, Allottee of	or Tribe Name
SUBMIT IN TRI	PLICATE - Other instruc	ctions on rev	erse side.		7. If Unit or CA/Agree 891008900A	ement, Name and/or No.
1. Type of Well					8. Well Name and No. NBU 922-33D4B5	
Oil Well Gas Well Oth						· · · · · · · · · · · · · · · · · · ·
2. Name of Operator KERR MCGEE OIL & GAS O	Contact: NSHORELMail: joel.malefy	JOEL MALEI rt@anadarko.co	-YT om 		9. API Well No. 43-047-50510-0	0-X1
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078		3b. Phone No Ph: 720-92 Fx: 720-929			10. Field and Pool, or NATURAL BUT	Exploratory TES
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description)			11. County or Parish,	and State
Sec 33 T9S R22E NWNW 12 39.996453 N Lat, 109.449731				,	UINTAH COUN	TY, UT
12. CHECK APPI	ROPRIATE BOX(ES) TO	O INDICATE	NATURE OF 1	NOTICE, RE	EPORT, OR OTHE	R DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
Notice of Intent	☐ Acidize	Dee	pen	☐ Producti	on (Start/Resume)	☐ Water Shut-Off
_	☐ Alter Casing	☐ Frac	ture Treat	☐ Reclama	ation	■ Well Integrity
☐ Subsequent Report	Casing Repair	□ New	Construction	☐ Recomp	lete	Other
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug	and Abandon	☐ Tempora	arily Abandon	Change to Original A PD
	☐ Convert to Injection	Plug	Plug Back Water Disposal		risposal	
following completion of the involved testing has been completed. Final Abdetermined that the site is ready for final Kerr-McGee Oil & Gas Onsho extension to this APD for the rundersigned with any question APD - 5/25/13	andonment Notices shall be file inal inspection.) re, L.P. (Kerr-McGee) res naximum time allowed. P	ed only after all i pectfully requiresse contact	equirements, includ	ing reclamation	VERNAL F	FIELD OFFICE
NEPA- 2013-74EA			• -		GEO	THE REPORT OF THE PROPERTY OF
			APR 20 20	לון	1	
•				0.1411110	E.S.	Company of the Company price of the Tanger's and a Company of the
CONDITIONS OF APPROVAL ATTACHED DIV. OF OIL, GAS & MINING		S MINING S	PET.			
					RECL	
	Electronic Submission #2 For KERR MCGEE mitted to AFMSS for proce	EOIL & GAS O	NSHORE L, sent NETTA MAGEE o	to the Verna n 04/06/2015	i (15JM1501SE)	
Name (Printed/Typed) JOEL MAL	_EFYT		Title REGUL	ATORY ANA	ALYST	
Signature (Electronic S	ubmission)		Date 04/02/20	015		
	THIS SPACE FO	R FEDERA	L OR STATE	OFFICE US	SE	
Approved By Approved By	/ C			tant Field & Mineral	Manager Resources	ABR 1 0 2015
Conditions of approval, if any, are attached certify that the applicant holds legal or equ	I. Approval of this notice does itable title to those rights in the	not warrant or subject lease			FIELD OFFICE	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Revisions to Operator-Submitted EC Data for Sundry Notice #297047

Operator Submitted

BLM Revised (AFMSS)

Sundry Type:

OTHER

NOI

Lease:

UTU01191A

Agreement:

UTU63047A

Operator:

KERR MCGEE OIL & GAS LP PO BOX 173779 DENVER, CO 80202-3779 Ph: 720-929-6000

Admin Contact:

JOEL MALEFYT REGULATORY ANALYST E-Mail: JOEL.MALEFYT@ANADARKO.COM

Ph: 720-929-6828 Fx: 720-929-7828

Tech Contact:

JOEL MALEFYT REGULATORY ANALYST E-Maii: JOEL.MALEFYT@ANADARKO.COM

Ph: 720-929-6828 Fx: 720-929-7828

Location: State: County:

UT UINTAH

Field/Pool:

NATURAL BUTTES

Well/Facility:

NBU 922-33D4BS

Sec 33 T9S R22E

APDCH NOI

UTU01191A

891008900A (UTU63047A)

KERR MCGEE OIL & GAS ONSHORE L 1368 SOUTH 1200 EAST VERNAL, UT 84078 Ph: 435.789.3995

JOEL MALEFYT REGULATORY ANALYST E-Mail: joel.malefyt@anadarko.com

Ph: 720-929-6828 Fx: 720-929-7828

JOEL MALEFYT REGULATORY ANALYST E-Mail: joel.malefyt@anadarko.com

Ph: 720-929-6828 Fx: 720-929-7828

UT UINTAH

NATURAL BUTTES

NBU 922-33D4BS Sec 33 T9S R22E NWNW 1217FNL 1315FWL 39.996453 N Lat, 109.449731 W Lon

CONDITIONS OF APPROVAL

Kerr McGee Oil and Gas Onshore LP.

Notice of Intent APD Extension

Lease:

UTU-01191A

Well:

NBU 922-33D4BS

Location:

NWNW Sec 33-T9S-R22E

An extension for the referenced APD is granted with the following conditions:

- 1. The extension and APD shall expire on 05/28/2017.
- 2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Robin L Hansen of this office at (435) 781-2777

	STATE OF UTAH		FORM 9	
	DEPARTMENT OF NATURAL RESOURG DIVISION OF OIL, GAS, AND MII	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 01191A		
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizo n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-33D4BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047505100000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18t	h Street, Suite 600, Denver, CO, 8021	PHONE NUMBER: 7 3779 720 929-	9. FIELD and POOL or WILDCAT:	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1309 FNL 0987 FWL			COUNTY: UINTAH	
QTR/QTR, SECTION, TOWNS	HIP, RANGE, MERIDIAN: 33 Township: 09.0S Range: 22.0E Mei	ridian: S	STATE: UTAH	
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA	
TYPE OF SUBMISSION		TYPE OF ACTION		
/	ACIDIZE	ALTER CASING	CASING REPAIR	
NOTICE OF INTENT Approximate date work will start: 6/17/2015	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME	
0/17/2015	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE	
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION	
Date of Work Completion.	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK	
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION	
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON	
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL	
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION	
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:	
12 DESCRIPE PROPOSED OR	COMPLETED OPERATIONS. Clearly show	all portinent details including dates	dontho volumes etc	
Kerr-McGee Oil & G an extension to this	Gas Onshore, L.P. (Kerr-McG APD for the maximum time with any questions and/or c	ee) respectfully requests allowed. Please contact	Approved by the	
			Date:	
			By: Docatell	
NAME (PLEASE PRINT)	PHONE NUME			
Jennifer Thomas	720 929-6808	Regulatory Specialist		
SIGNATURE N/A		DATE 6/17/2015		



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047505100000

API: 43047505100000 Well Name: NBU 922-33D4BS

Location: 1309 FNL 0987 FWL QTR NWNW SEC 33 TWNP 090S RNG 220E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 7/15/2009

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
 Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
• Has the approved source of water for drilling changed? Yes No
 Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? Yes No
nature: Jennifer Thomas Date: 6/17/2015

Sig

Title: Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Sundry Number: 72002 API Well Number: 43047505100000

	FORM 9			
ι	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 01191A			
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	pen existing wells below laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES		
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 922-33D4BS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047505100000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	PHo n Street, Suite 600, Denver, CO, 80217 37	ONE NUMBER: 79 720 929-6	9. FIELD and POOL or WILDCAT: 4516TURAL BUTTES	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1309 FNL 0987 FWL			COUNTY: UINTAH	
QTR/QTR, SECTION, TOWNSH	IIP, RANGE, MERIDIAN: 33 Township: 09.0S Range: 22.0E Meridian	n: S	STATE: UTAH	
11. CHECH	K APPROPRIATE BOXES TO INDICATE N	IATURE OF NOTICE, REPOR	T, OR OTHER DATA	
TYPE OF SUBMISSION		TYPE OF ACTION		
	ACIDIZE	ALTER CASING	CASING REPAIR	
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME	
5/27/2016	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE	
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION	
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK	
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION	
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	UBING REPAIR	VENT OR FLARE	WATER DISPOSAL	
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION	
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:	
12 DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all po	ertinent details including dates, d	enths volumes etc	
Kerr-McGee Oil & G an extension to this	as Onshore, L.P. (Kerr-McGee) APD for the maximum time allowith any questions and/or com	respectfully requests owed. Please contact	Approved by the UlumeD01;s201 of Oil, Gas and Mining	
ino unacroignou	with any questions and/or com	monto. Thank you.	Date	
			By: Bacyll	
			7.0	
NAME (DI FACE PRINT)	BHONE NUMBER	TITLE		
Joel Malefyt	PHONE NUMBER 720 929-6828	TITLE Regualtory Analyst		
SIGNATURE N/A		DATE 5/27/2016		

Sundry Number: 72002 API Well Number: 43047505100000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

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• Is bonding still in place, which covers this proposed well? Yes No
nature: Joel Malefyt Date: 5/27/2016

Sig

Title: Regualtory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.